

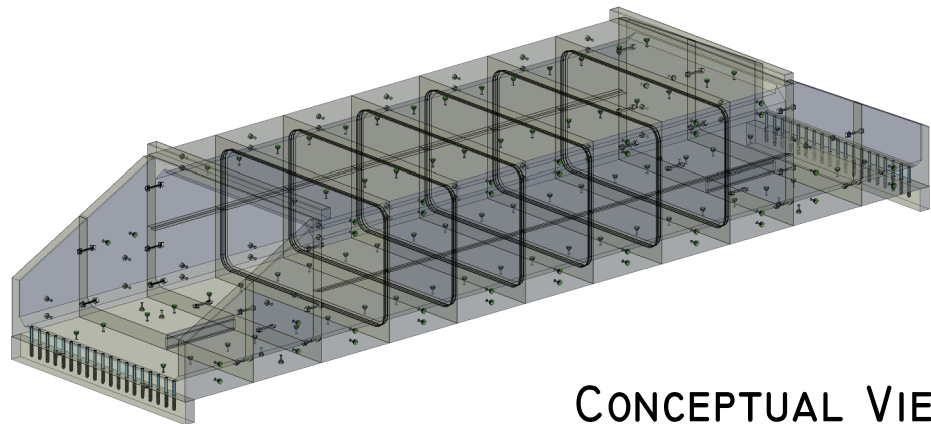
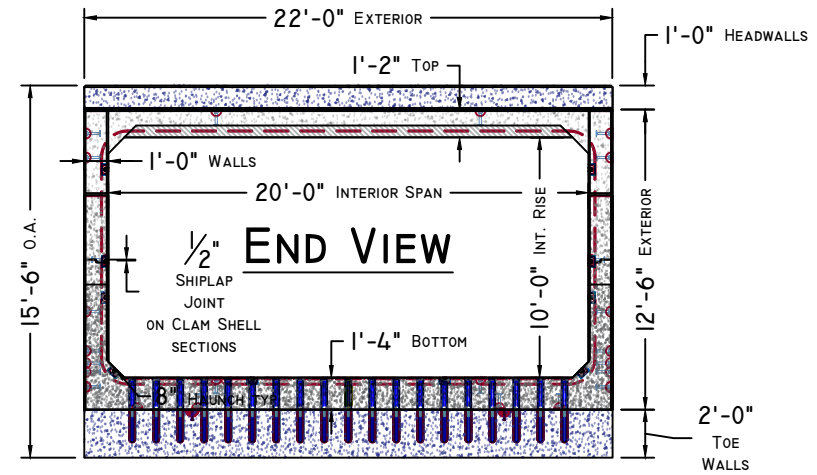
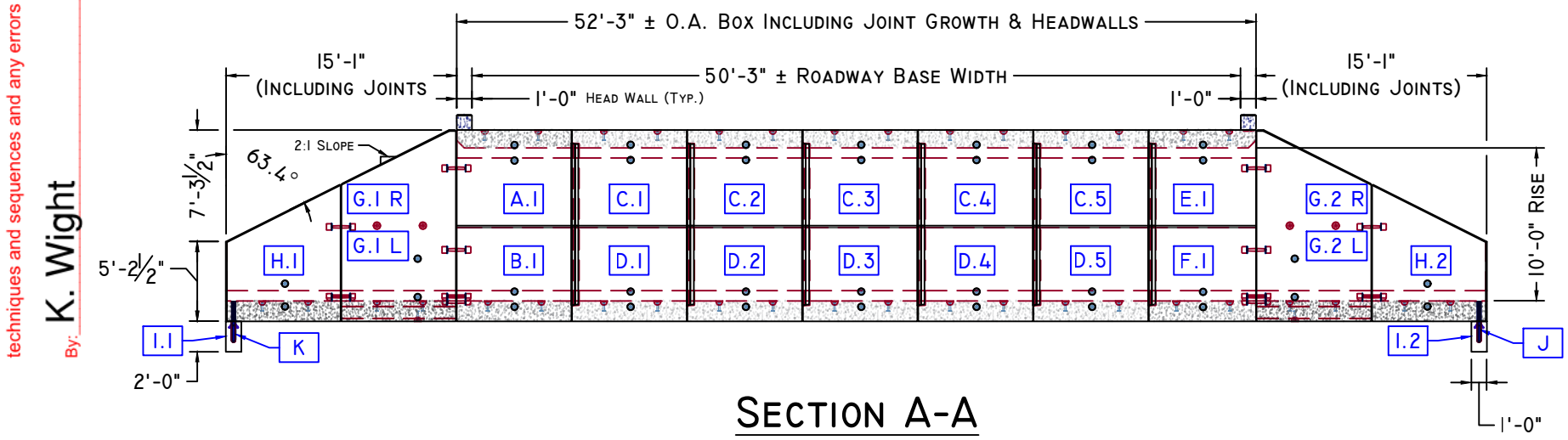
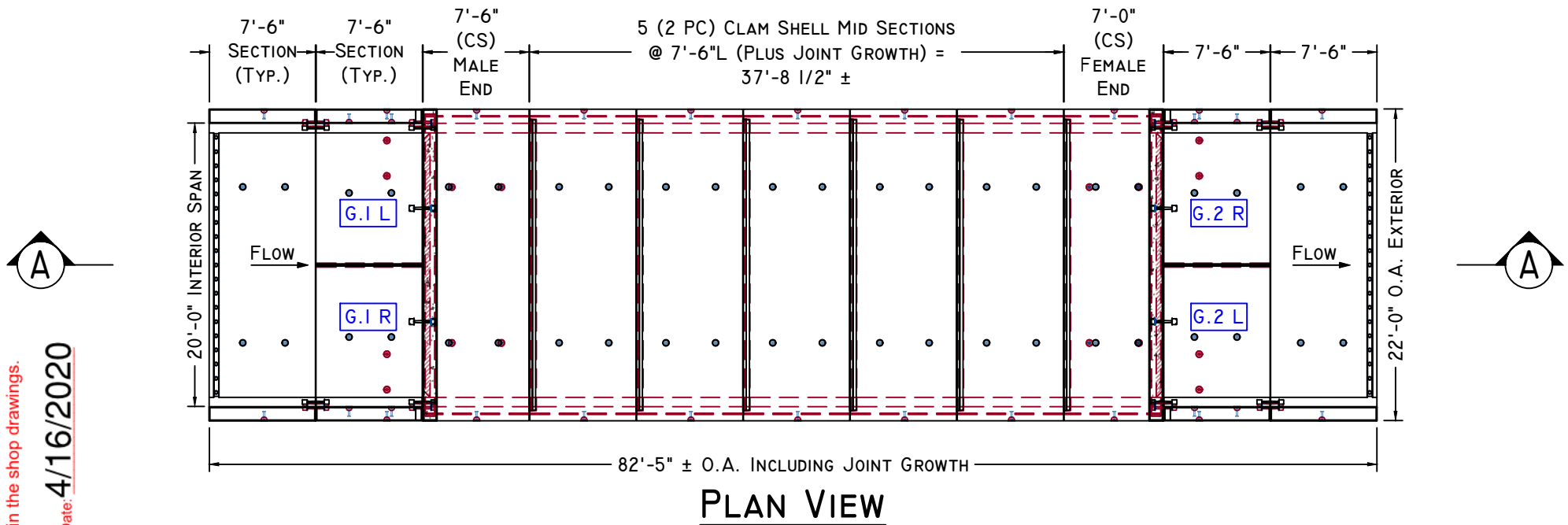


Superior Concrete, LLC
982 MINOT AVE. AUBURN, ME. 04210
TEL: 207-784-1388
FAX: 866-414-9083
WWW.SUPERIORCONCRETE.COM

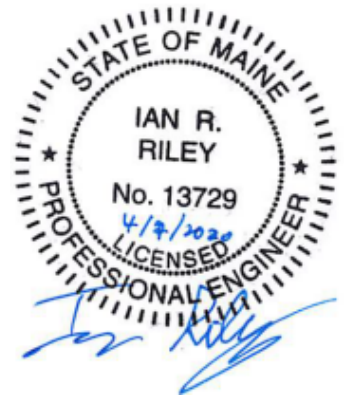
ITEM	QTY	BILL OF MATERIALS
A	(1)	7'-6" UPSTREAM SLOPED MALE END TOP (44,450 #)
B	(1)	7'-6" UPSTREAM MALE END BOTTOM (44,950 #)
C	(5)	7'-6" MID SECTION TOP (40,900 #/ EA.)
D	(5)	7'-6" MID SECTION BOTTOM (44,350 #/ EA.)
E	(1)	7'-0" D.S. SLOPED FEMALE END TOP (40,550 #)
F	(1)	7'-0" DS FEMALE END BOTTOM (40,800 #)
G	(2)	7'-6" LG SLOPED (L&R) SECTIONS (27,250 #/ EA.)
H	(2)	7'-6" SMALL SLOPED SECTION (46,200 #/EA.)
I	(2)	1' x 2' x 22'-0" TOE WALL (6,400 #/ EA.)
J	(38)	#8 x 28" TOEWALL PIN
K	(38)	MP-316 GROUT CONNECTION TUBE (IN TOEWALLS)
	(44)	CONSEAL CS-102 BUTYL SEALANT (14.5' ROLL)

- DESIGN NOTES:
- Concrete**
 - 1.1. COMP. STRENGTH MIN. 5,000PSI @ 28 DAYS
 - 1.2. AIR-ENTRAINMENT: 5.5% - 7.5%
 - Structural Reinforcement:**
 - 2.1. BAR PER ASTM A615, GRADE 60
 - 2.2. WWR PER ASTM A1064, GRADE 75
 - 2.3. INTEGRATE REBAR WITH LIFTING INSERT(S)
 - 2.4. INTERRUPTED BAR AREAS WILL BE REPLACED EACH SIDE WITH HALF THE AFFECTED AREA
 - 2.5. DESIGNED FOR HL-93 (+25% LL) WHEEL LOAD RATING
 - 2.6. 2" CLR EXTERIOR, 1 1/2" CLR INTERIOR
 - Manufacturing / Installation:**
 - 3.1. FULL BOX JOINTS AND SLOPED END SECTIONS TO BE SEALED WITH CONSEAL CS-102 BUTYL SEALANT (JOINT GROWTH OF 1/2"± IS EXPECTED PER JOINT)
 - 3.2. CONFORMS STRICTLY TO ASTM AND MAINE DOT STANDARDS
 - 3.3. ALL EXPOSED SURFACES TO HAVE A RUBBED FINISH OR APPROVED EQUAL IN ACCORDANCE WITH SPEC. SECTION 534.17
 - 3.4. ALL FORM TIES, METAL INSERTS (ETC.) MUST BE RECESSED A MIN. OF 1 INCH FROM SURFACE AND AREA GROUTED AFTER USE / INSTALLATION
 - Soil / Fill Requirements:**
 - 4.1. MINIMUM = 2.0 FT
 - 4.2. MAXIMUM = 2.5 FT
 - 4.3. FILL INCREMENT = 0.50 FT
 - 4.4. DESIGNED FOR 2.0 FT (MIN.) FILL WITH TYPICAL CONSTRUCTION LOADING ON TOP SLAB

Note: Some details not shown for clarity SCALE: 1/8" = 1'-0" Unless otherwise noted	
STRUCTURE NAME: 20'S x 10'R x 82'L Box CULVERT (CLAMSHELL)	
JOB NAME: DURRELLS MILL BRIDGE (WIN 22234.00)	
LOCATION: NEWTON BROOK - DIXFIELD, ME.	
CONTRACTOR/ OWNER: T.B.D. / MEDOT	
DRAWN BY: ABL	SHEET:
DATE: 03/12/2020	LI.0
REV.#: 0.01 DATE: 04/07/20	
PROJECT MGR: C.H.	SHEET: 1 OF 11



CONCEPTUAL VIEW
SCALE: NTS

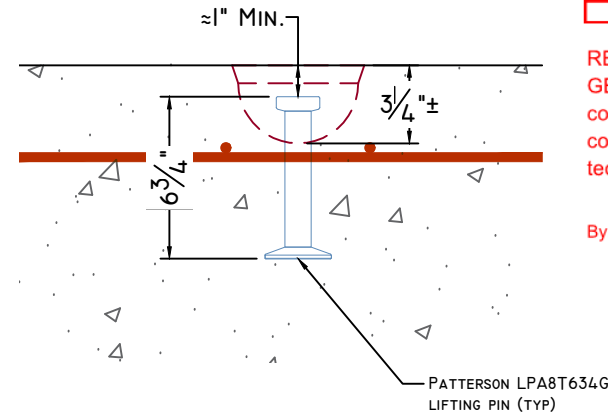
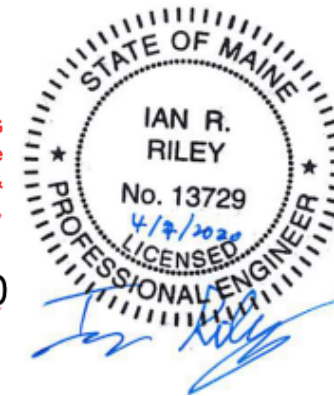


STANTEC CONSULTING SERVICES INC.
NO EXCEPTION TAKEN
MAKE CORRECTIONS NOTED
REVISE & RESUBMIT
RESUBMIT CERTIFIED
REVIEW BY STANTEC IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMITY WITH DESIGN. The review does not relieve the contractor of his responsibility for equipment design dimensions, fit, quality & compliance with the contract documents nor for construction means, methods, techniques and sequences and any errors or omissions in the shop drawings.
By: K. Wight
Date: 4/16/2020

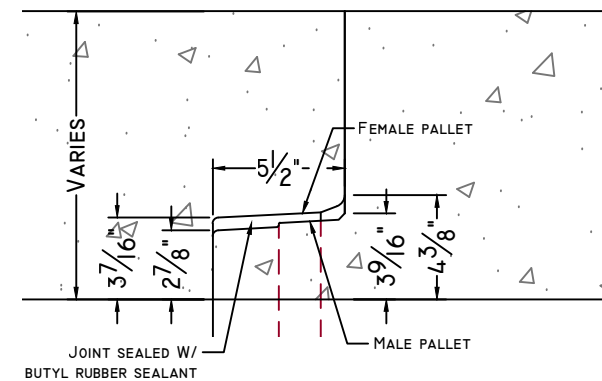
SEE NOTE 2.3 FOR REINFORCING INFORMATION
AROUND LIFTING DEVICES

- ☒ NO EXCEPTION TAKEN
☐ MAKE CORRECTIONS NOTED
☐ REVISE & RESUBMIT
☐ RESUBMIT CERTIFIED

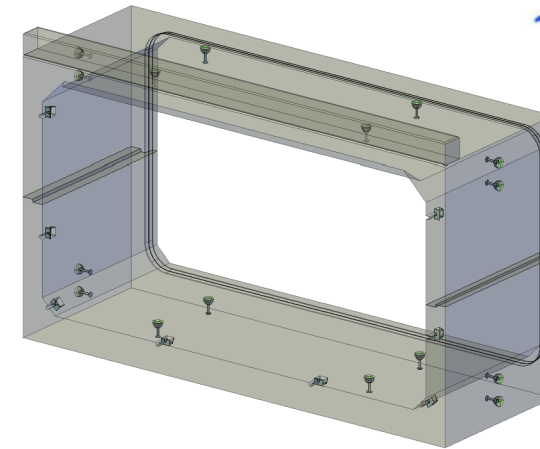
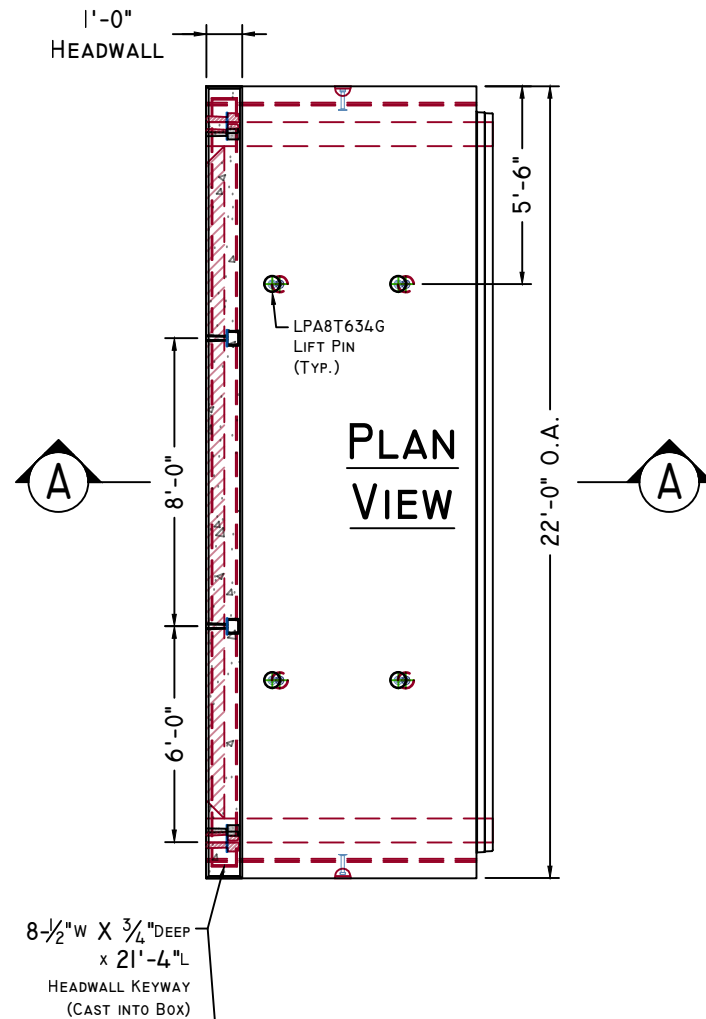
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By: **K. Wight**Date: **4/16/2020****LIFTING PIN DETAIL**

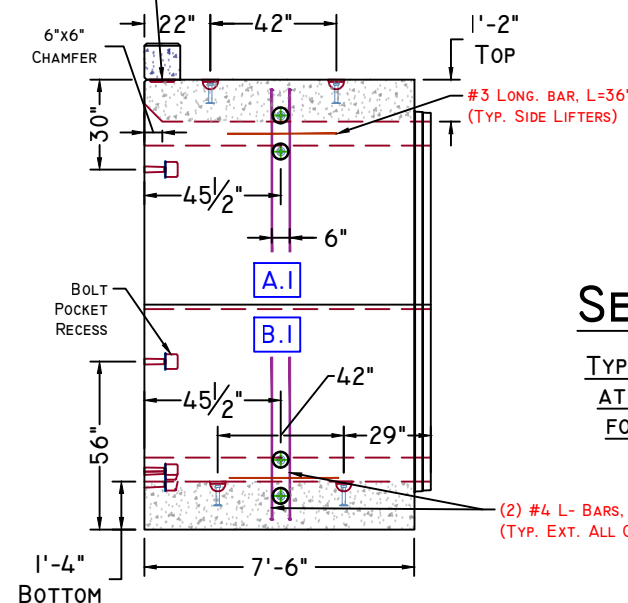
SCALE: 1 1/2" = 1'-0"

**CULVERT JOINT DETAIL**

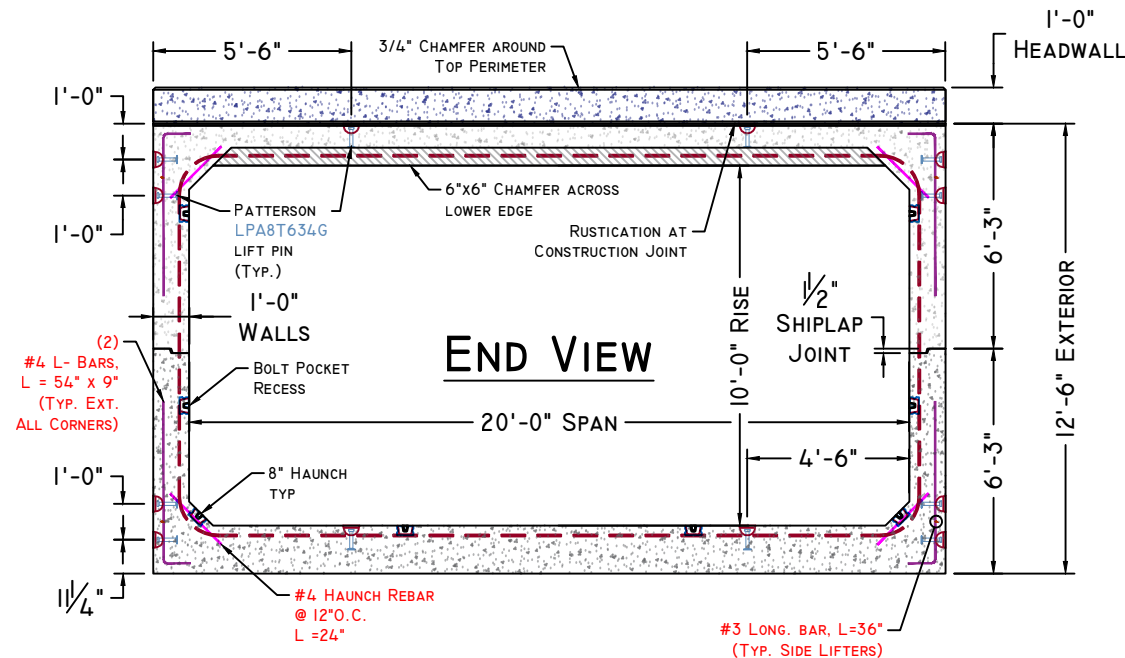
SCALE: 1 1/2" = 1'-0"

**CONCEPTUAL VIEW - NTS**

8 1/2" W X 3 3/4" DEEP
x 21'-4" L
HEADWALL KEYWAY
(CAST INTO BOX)

**SECTION A-A**

TYPICAL REINFORCEMENT
AT INTERRUPTED WWR
FOR LIFTING DEVICES



Note: Some details not shown for clarity
SCALE: 3/16" = 1'-0" Unless otherwise noted

**Superior Concrete, LLC**

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ITEM	QTY	BILL OF MATERIALS
A	(1)	7'-6" UPSTREAM SLOPED MALE END TOP WITH ATTACHED HEADWALL (44,450 #)
	(2)	BOLT POCKET RECESS
	(8)	LPA8T634G LIFTING PIN
	(2)	#3 x 36" LONGITUDINAL BAR (SIDE LIFTERS)
	(4)	#4 L - BAR (54" x 9") (SIDE LIFTERS)
	(16)	#4 x 24" HAUNCH BAR
B	(1)	7'-6" UPSTREAM MALE END BOTTOM (44,950 #)
	(4)	BOLT POCKET RECESS
	(8)	LPA8T634G LIFTING PIN
	(2)	#3 x 36" LONGITUDINAL BAR (SIDE LIFTERS)
	(4)	#4 L - BAR (54" x 9") (SIDE LIFTERS)
	(16)	#4 x 24" HAUNCH BAR

DESIGN NOTES:**1. Concrete**

- 1.1. COMP. STRENGTH MIN. 5,000PSI @ 28 DAYS
 1.2. AIR-ENTRAINMENT: 5.5% - 7.5%

2. Structural Reinforcement:

- 2.1. BAR PER ASTM A615, GRADE 60
 2.2. WWR PER ASTM A1064, GRADE 75
 2.3. INTEGRATE REBAR WITH LIFTING INSERT(S)
 2.4. INTERRUPTED BAR AREAS WILL BE REPLACED EACH SIDE WITH HALF THE AFFECTED AREA
 2.5. DESIGNED FOR HL-93 (+25% LL) WHEEL LOAD RATING
 2.6. 2" CLR EXTERIOR, 1 1/2" CLR INTERIOR

3. Manufacturing / Installation:

- 3.1. FULL BOX JOINTS AND SLOPED END SECTIONS TO BE SEALED WITH CONSEAL CS-102 BUTYL SEALANT (JOINT GROWTH OF 1/2" ± IS EXPECTED PER JOINT)
 3.2. CONFORMS STRICTLY TO ASTM AND MAINE DOT STANDARDS
 3.3. ALL EXPOSED SURFACES TO HAVE A RUBBED FINISH OR APPROVED EQUAL IN ACCORDANCE WITH SPEC. SECTION 534.17
 3.4. ALL FORM TIES, METAL INSERTS (ETC.) MUST BE RECESSED A MIN. OF 1 INCH FROM SURFACE AND AREA GROUTED AFTER USE / INSTALLATION

4. Soil / Fill Requirements:

- 4.1. MINIMUM = 2.0 FT
 4.2. MAXIMUM = 2.5 FT
 4.3. FILL INCREMENT = 0.50 FT
 4.4. DESIGNED FOR 2.0 FT (MIN.) FILL WITH TYPICAL CONSTRUCTION LOADING ON TOP SLAB

STRUCTURE NAME:

20'S X 10'R x 82'L Box CULVERT (CLAMSHELL)

JOB NAME:

DURRELLS MILL BRIDGE (WIN 22234.00)

LOCATION:

NEWTON BROOK - DIXFIELD, ME.

CONTRACTOR/ OWNER:

T.B.D. / MEDOT

DRAWN BY:

ABL

SHEET:**DATE:**

03/12/2020

REV.#:

0.01 DATE: 04/07/20

PROJECT MGR:

C.H.

ABI.1

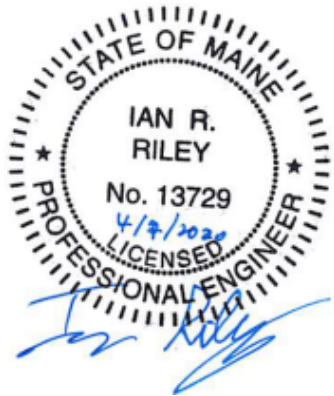
SHEET: 2 OF 11

- ☒ NO EXCEPTION TAKEN
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By: K. Wight

Date: 4/16/2020



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ITEM	QTY	BILL OF MATERIALS
C	(5)	7'-6" MID SECTION TOP (40,900 #/ EA.)
	(40)	LPA8T634G LIFTING PIN (8 EA./ CASTING)
	(10)	#3 x 36" LONGITUDINAL BAR (SIDE LIFTERS)
	(20)	#4 L - BAR (54" x 9") (SIDE LIFTERS)
	(80)	#4 x 24" HAUNCH BAR
D	(5)	7'-6" MID SECTION BOTTOM (44,350 #/ EA.)
	(40)	LPA8T634G LIFTING PIN (8 EA./ CASTING)
	(10)	#3 x 36" LONGITUDINAL BAR (SIDE LIFTERS)
	(20)	#4 L - BAR (54" x 9") (SIDE LIFTERS)
	(80)	#4 x 24" HAUNCH BAR

DESIGN NOTES:

1. Concrete

- 1.1. COMP. STRENGTH MIN. 5,000PSI @ 28 DAYS
1.2. AIR-ENTRAINMENT: 5.5% - 7.5%

2. Structural Reinforcement:

- 2.1. BAR PER ASTM A615, GRADE 60
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2.5. DESIGNED FOR HL-93 (+25% LL) WHEEL LOAD RATING
2.6. 2" CLR EXTERIOR, 1 1/2" CLR INTERIOR
3. Manufacturing / Installation:
3.1. FULL BOX JOINTS AND SLOPED END SECTIONS TO BE SEALED WITH CONSEAL CS-102 BUTYL SEALANT (JOINT GROWTH OF 1/2"± IS EXPECTED PER JOINT)
3.2. CONFORMS STRICTLY TO ASTM AND MAINE DOT STANDARDS
3.3. ALL EXPOSED SURFACES TO HAVE A RUBBED FINISH OR APPROVED EQUAL IN ACCORDANCE WITH SPEC. SECTION 534.17
3.4. ALL FORM TIES, METAL INSERTS (ETC.) MUST BE RECESSED A MIN. OF 1 INCH FROM SURFACE AND AREA GROUTED AFTER USE / INSTALLATION

4. Soil / Fill Requirements:

- 4.1. MINIMUM = 2.0 FT
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STRUCTURE NAME:

20'S x 10'R x 82'L Box CULVERT (CLAMSHELL)

JOB NAME:

DURRELLS MILL BRIDGE (WIN 22234.00)

LOCATION:

NEWTON BROOK - DIXFIELD, ME.

CONTRACTOR/ OWNER:

T.B.D. / MEDOT

DRAWN BY:

ABL

SHEET:

DATE:

03/12/2020

REV.#:

0.01

DATE:

04/07/20

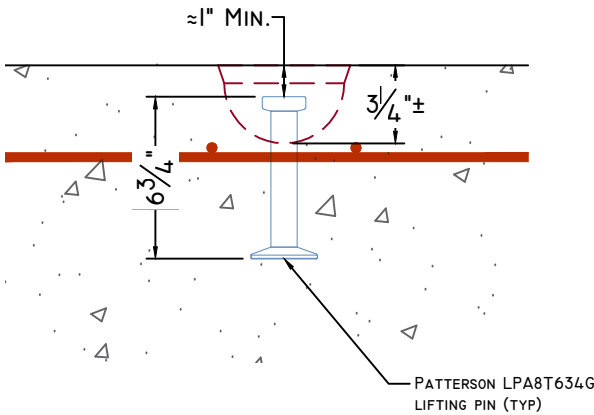
PROJECT MGR:

C.H.

CDI.2

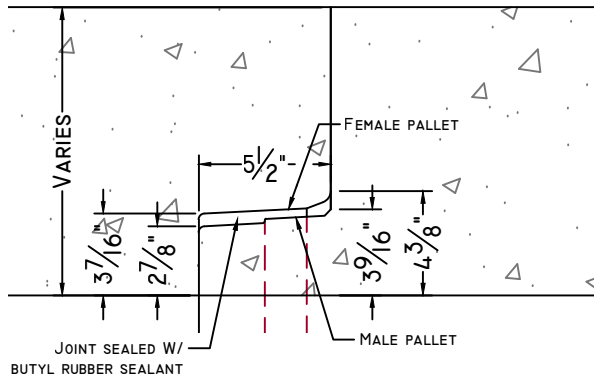
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SEE NOTE 2.3 FOR REINFORCING INFORMATION AROUND LIFTING DEVICES



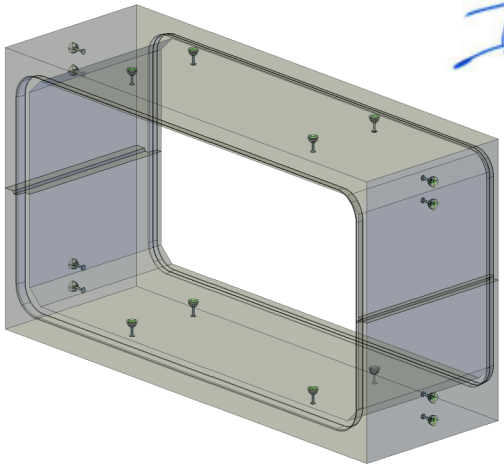
LIFTING PIN DETAIL

SCALE: 1 1/2" = 1'-0"

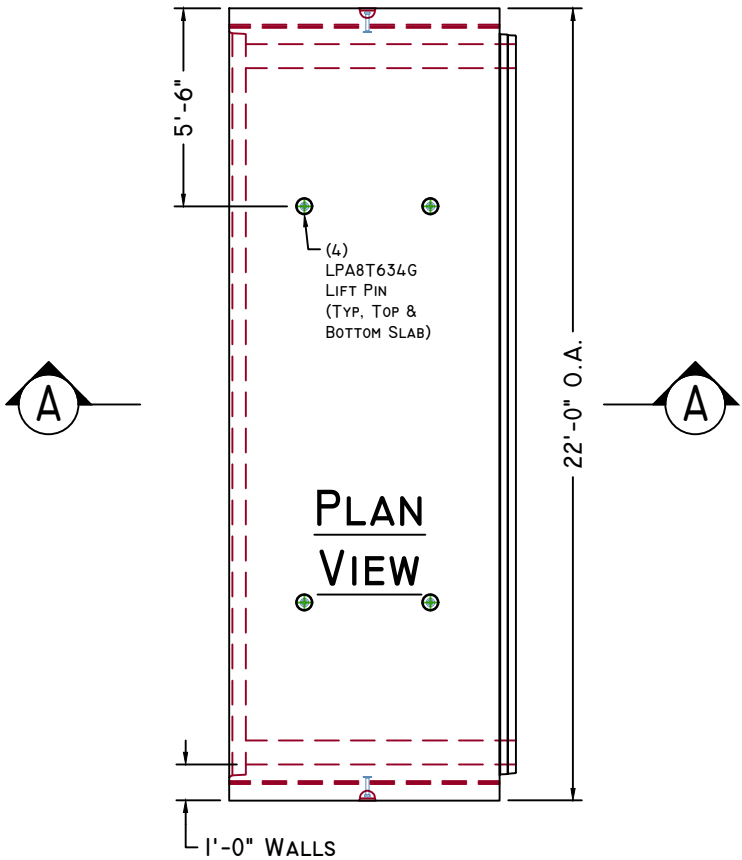


CULVERT JOINT DETAIL

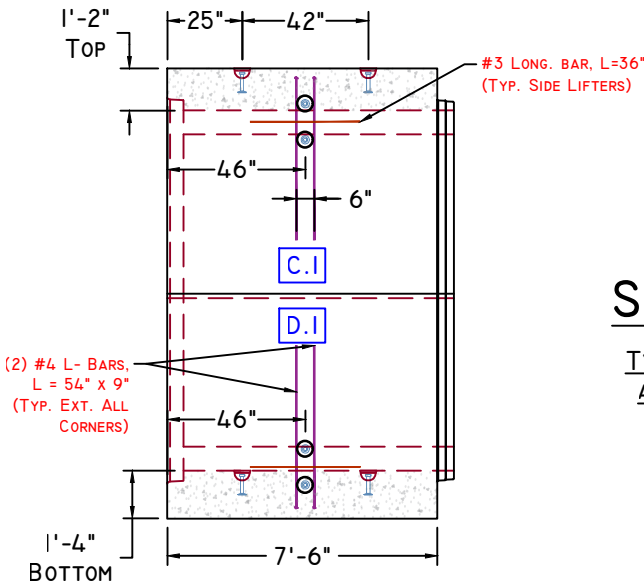
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CONCEPTUAL VIEW - NTS

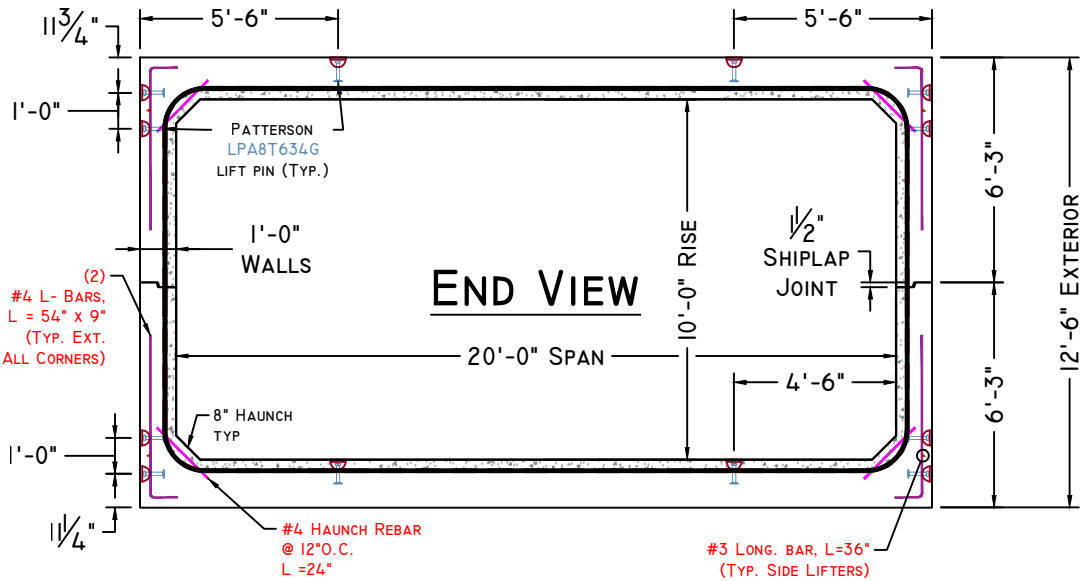


PLAN VIEW



SECTION A-A

TYPICAL REINFORCEMENT AT INTERRUPTED WWR FOR LIFTING DEVICES

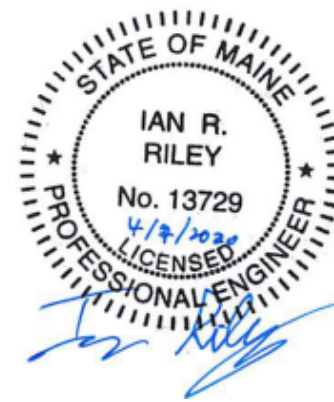


END VIEW

Note: Some details not shown for clarity
SCALE: 3/16" = 1'-0" Unless otherwise noted

- ☒ NO EXCEPTION TAKEN
☐ MAKE CORRECTIONS NOTED
☐ REVISE & RESUBMIT
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By: **K. Wight**Date: **4/16/2020****Superior Concrete, LLC**

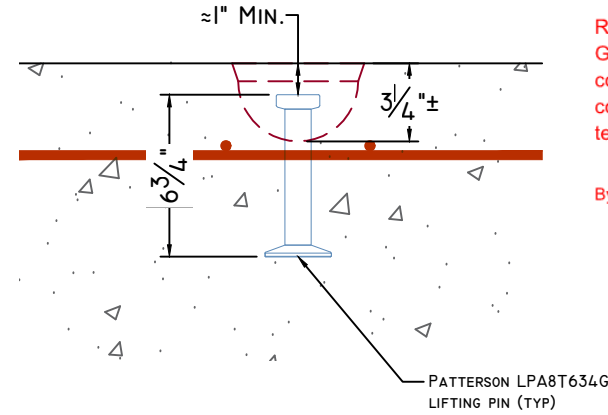
982 MINOT AVE. AUBURN, ME. 04210

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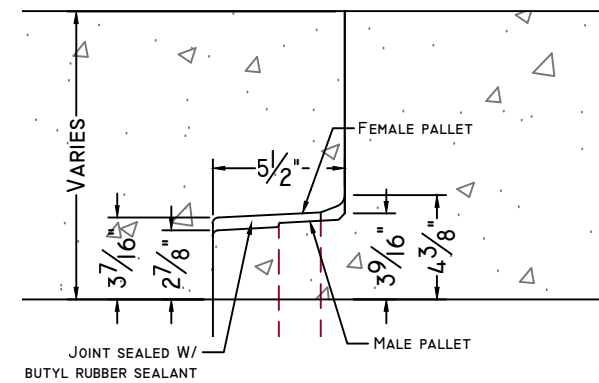
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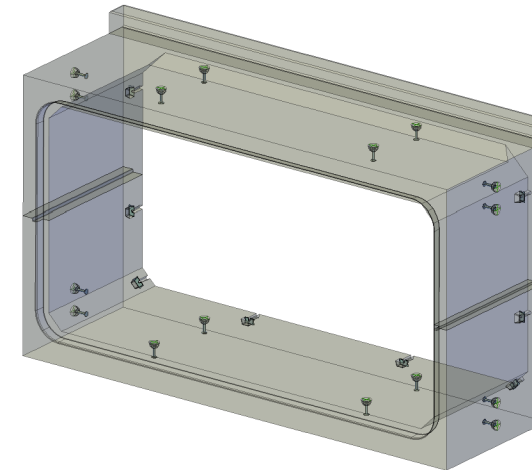
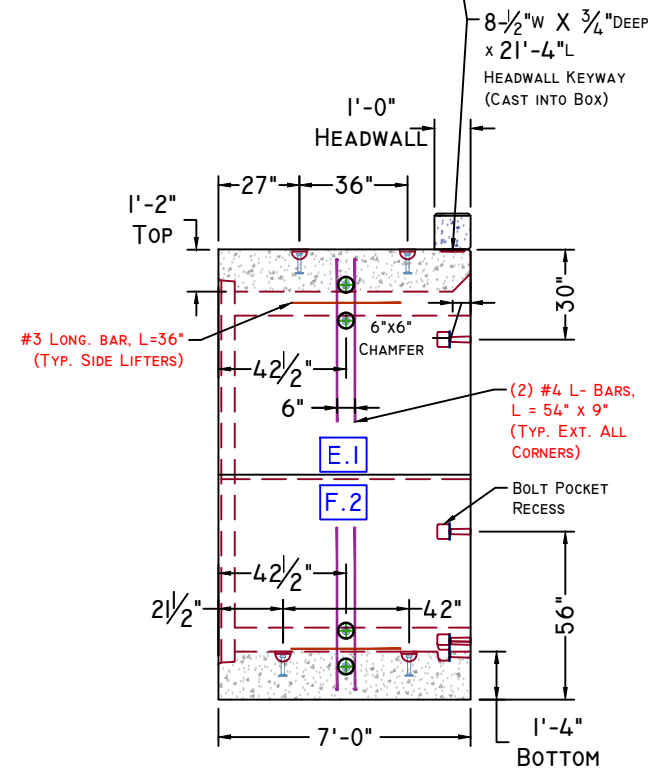
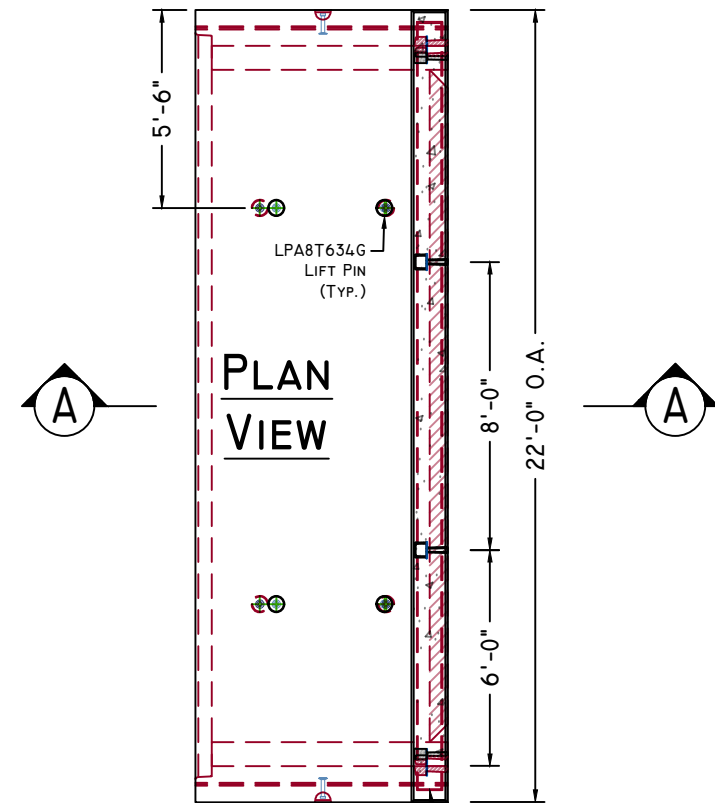
SEE NOTE 2.3 FOR REINFORCING INFORMATION
AROUND LIFTING DEVICES

**LIFTING PIN DETAIL**

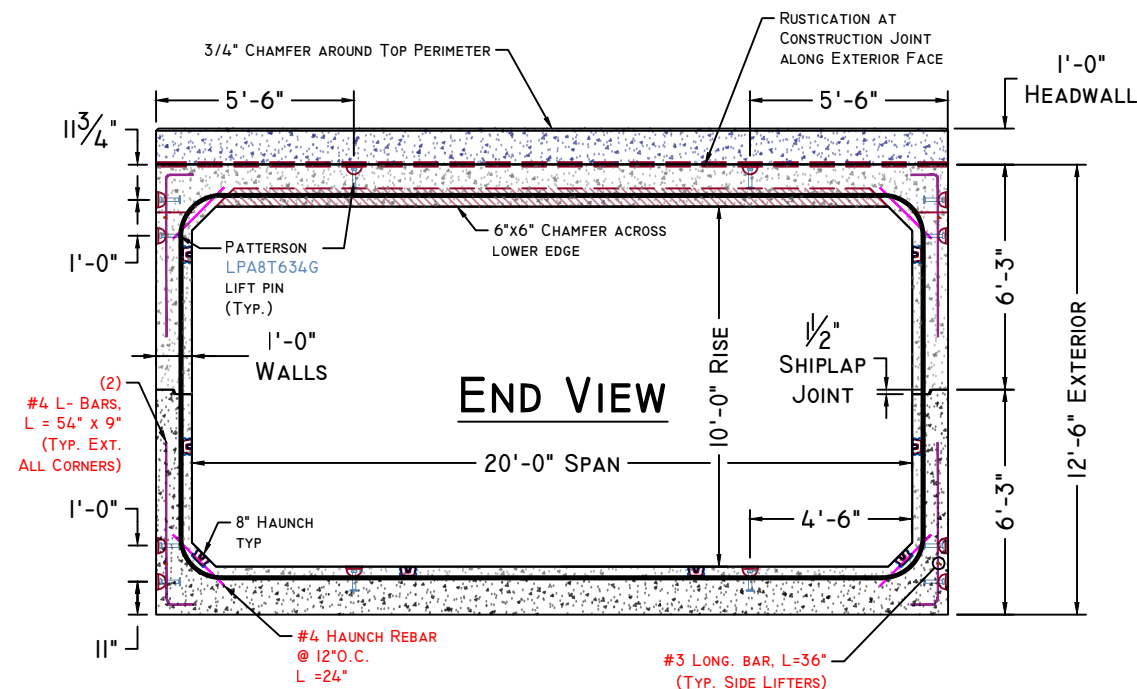
SCALE: 1 1/2" = 1'-0"

**CULVERT JOINT DETAIL**

SCALE: 1 1/2" = 1'-0"

**CONCEPTUAL VIEW - NTS****SECTION A-A**

TYPICAL REINFORCEMENT
AT INTERRUPTED WWR
FOR LIFTING DEVICES



Note: Some details not shown for clarity
SCALE: 3/16" = 1'-0" Unless otherwise noted

DESIGN NOTES:**1. Concrete**

- 1.1. COMP. STRENGTH MIN. 5,000PSI @ 28 DAYS
- 1.2. AIR-ENTRAINMENT: 5.5% - 7.5%

2. Structural Reinforcement:

- 2.1. BAR PER ASTM A615, GRADE 60
- 2.2. WWR PER ASTM A1064, GRADE 75
- 2.3. INTEGRATE REBAR WITH LIFTING INSERT(S)
- 2.4. INTERRUPTED BAR AREAS WILL BE REPLACED EACH SIDE WITH HALF THE AFFECTED AREA
- 2.5. DESIGNED FOR HL-93 (+25% LL) WHEEL LOAD RATING
- 2.6. 2" CLR EXTERIOR, 1 1/2" CLR INTERIOR

3. Manufacturing / Installation:

- 3.1. FULL BOX JOINTS AND SLOPED END SECTIONS TO BE SEALED WITH CONSEAL CS-102 BUTYL SEALANT (JOINT GROWTH OF 1/2"± IS EXPECTED PER JOINT)
- 3.2. CONFORMS STRICTLY TO ASTM AND MAINE DOT STANDARDS
- 3.3. ALL EXPOSED SURFACES TO HAVE A RUBBED FINISH OR APPROVED EQUAL IN ACCORDANCE WITH SPEC. SECTION 534.17
- 3.4. ALL FORM TIES, METAL INSERTS (ETC.) MUST BE RECESSED A MIN. OF 1 INCH FROM SURFACE AND AREA GROUTED AFTER USE / INSTALLATION

4. Soil / Fill Requirements:

- 4.1. MINIMUM = 2.0 FT
- 4.2. MAXIMUM = 2.5 FT
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JOB NAME:

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LOCATION:

NEWTON BROOK - DIXFIELD, ME.

CONTRACTOR/ OWNER:

T.B.D. / MEDOT

DRAWN BY:

ABL

SHEET:**DATE:**

03/12/2020

REV.#:

0.01 DATE: 04/07/20

PROJECT MGR:

C.H.

EFI.3

SHEET: 4 OF 11



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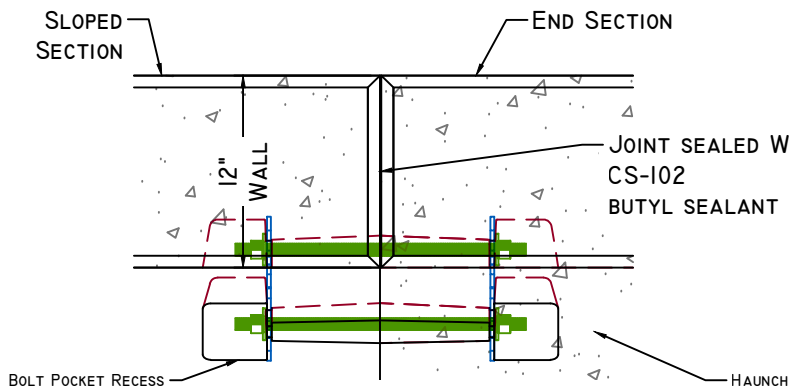
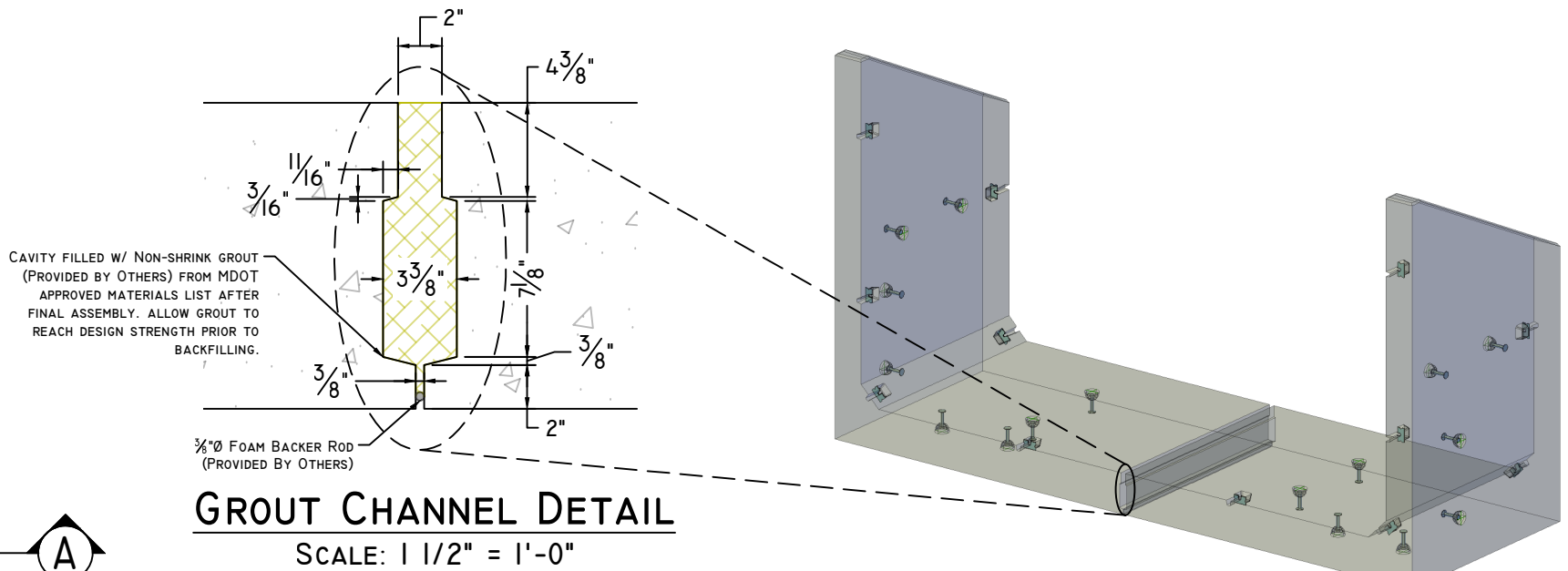
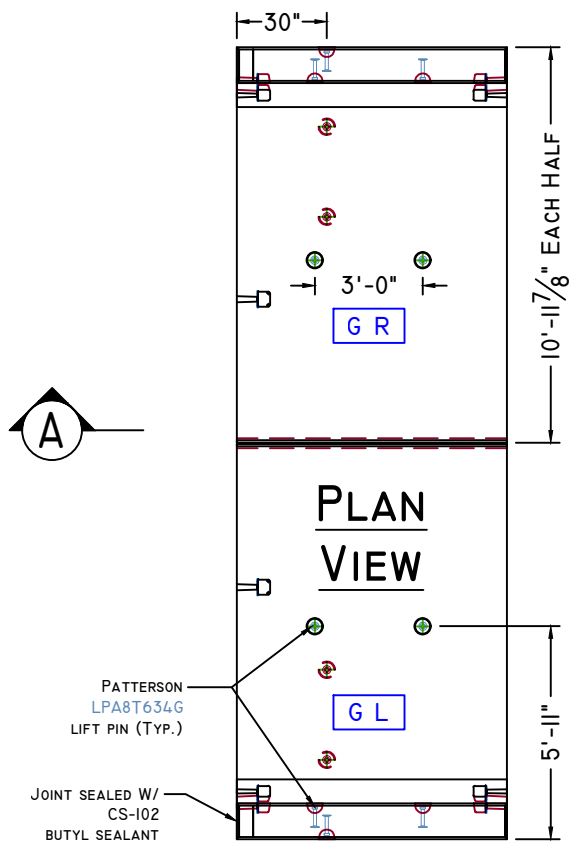
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ITEM	QTY	BILL OF MATERIALS
G R	(2)	7'-6" LARGE SLOPED RT. HAND SECT. (27,250 #/ EA.)
	(16)	LPA8T634G LIFTING PIN (8 EA / SECTION)
	(12)	BOLT POCKET RECESS (6 EA / SECTION)
	(16)	#4 x 24" HAUNCH BAR (8 EA / SECTION)
	(12)	#3 x 56" BAR (6 EA / SECTION) (@ LIFTERS)
G L	(2)	7'-6" LARGE SLOPED L.H. SECTIONS (27,250 #/ EA.)
	(16)	LPA8T634G LIFTING PIN (8 EA / SECTION)
	(12)	BOLT POCKET RECESS (6 EA / SECTION)
	(16)	#4 x 24" HAUNCH BAR (8 EA / SECTION)
	(12)	#3 x 56" BAR (6 EA / SECTION) (@ LIFTERS)

- DESIGN NOTES:
- Concrete**
 - COMP. STRENGTH MIN. 5,000PSI @ 28 DAYS
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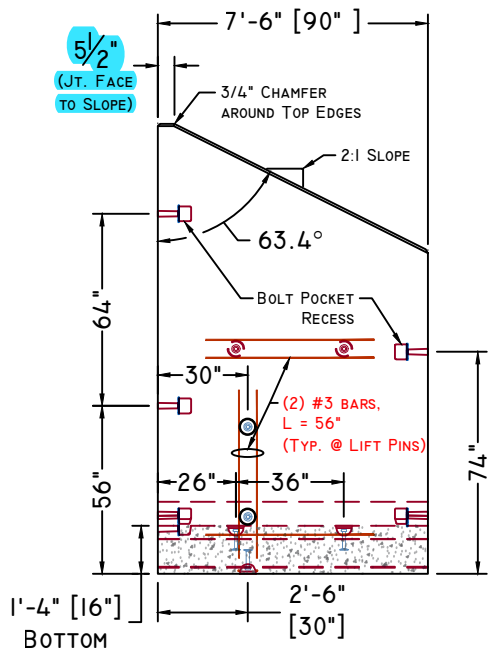
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LOCATION: NEWTON BROOK - DIXFIELD, ME.	
CONTRACTOR/ OWNER: T.B.D. / MEDOT	
DRAWN BY: ABL	SHEET: G1.4
DATE: 03/12/2020	REV.#: 0.01 DATE: 04/07/20
PROJECT MGR: C.H.	SHEET: 5 OF 11

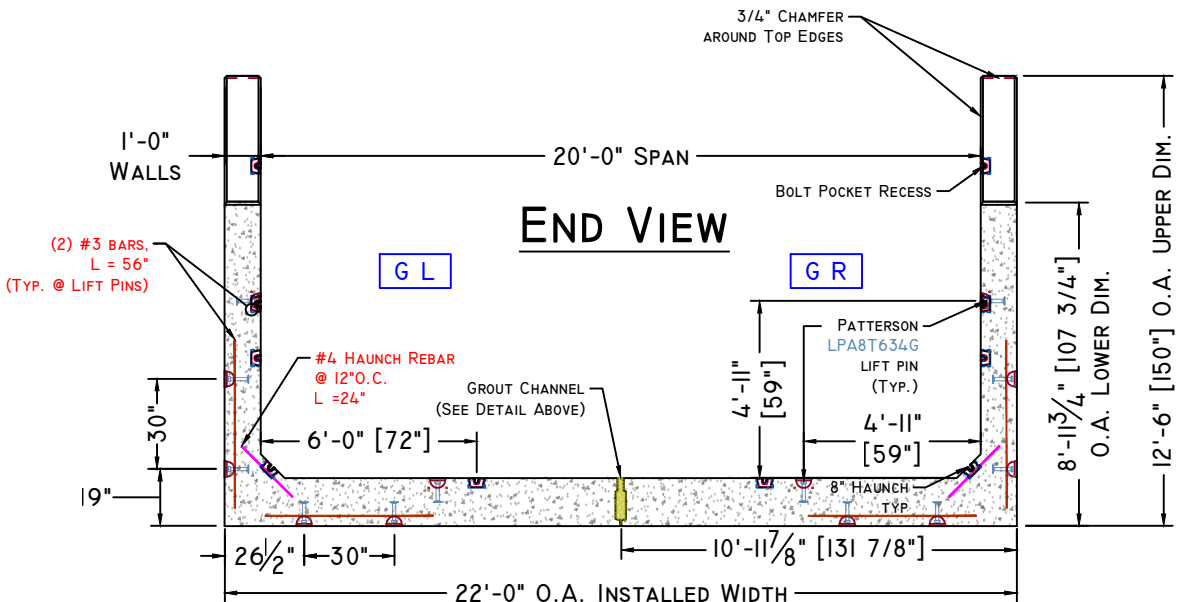


SLOPED SECTIONS JOINT DETAIL

PLAN VIEW
SCALE: 1" = 1'-0"

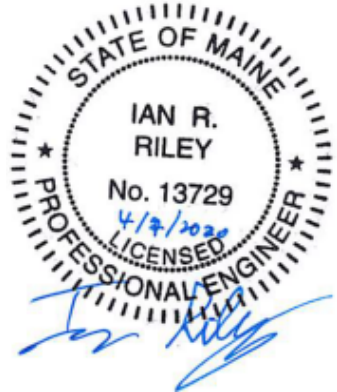


SECTION A-A

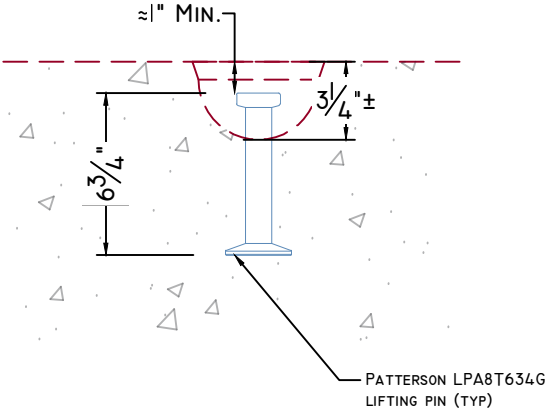


CONCEPTUAL VIEW - NTS

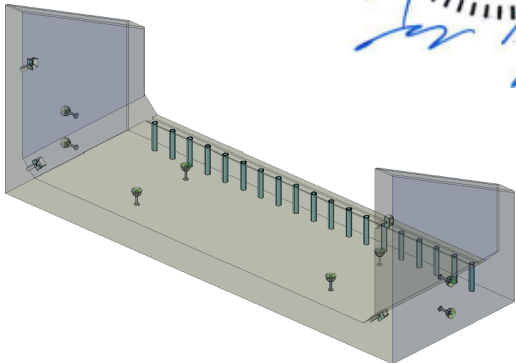
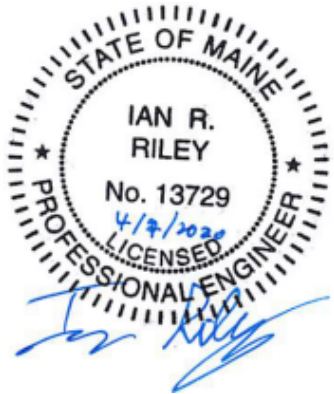
STANTEC CONSULTING SERVICES INC.
NO EXCEPTION TAKEN
MAKE CORRECTIONS NOTED
REVISE & RESUBMIT
RESUBMIT CERTIFIED
REVIEW BY STANTEC IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMITY WITH DESIGN. The review does not relieve the contractor of his responsibility for equipment design dimensions, fit, quality & compliance with the contract documents nor for construction means, methods, techniques and sequences and any errors or omissions in the shop drawings.
By: K. Wight
Date: 4/16/2020



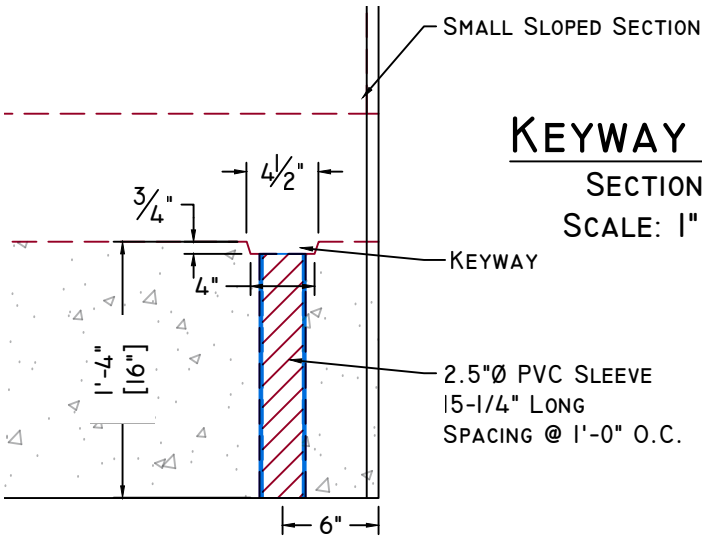
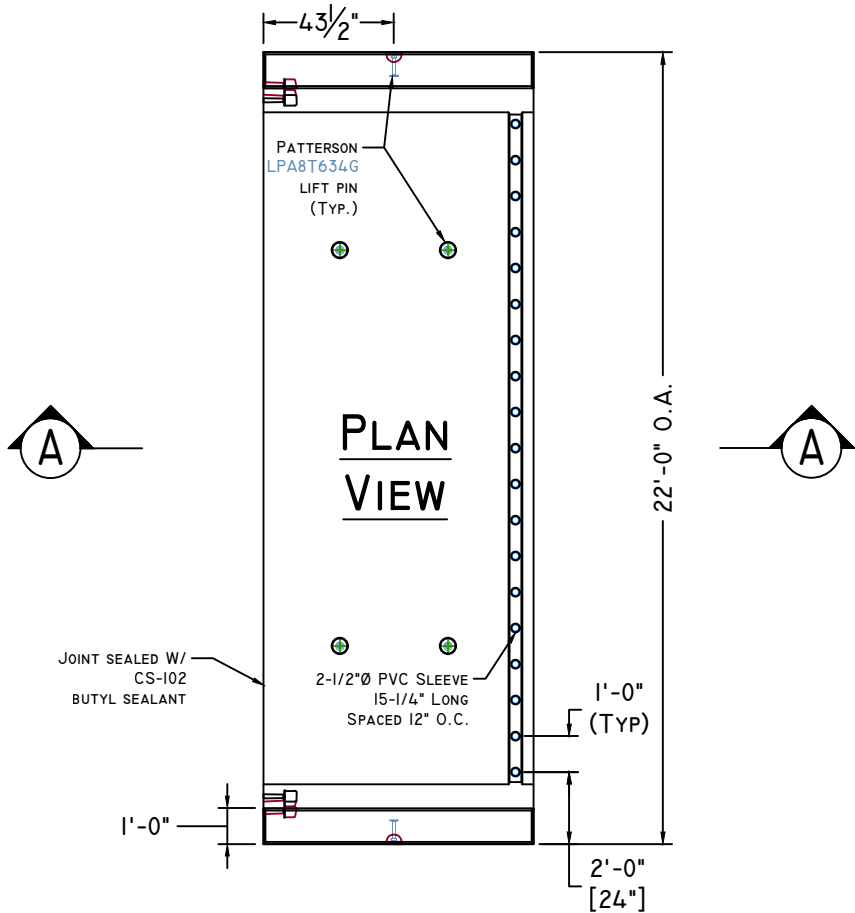
SEE NOTE 2.3 FOR REINFORCING INFORMATION
AROUND LIFTING DEVICES



LIFTING PIN DETAIL
SCALE: 1 1/2" = 1'-0"



CONCEPTUAL VIEW - NTS

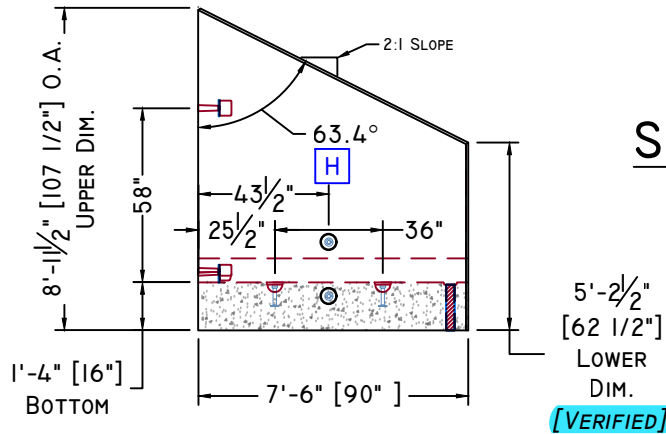


KEYWAY DETAIL
SECTION VIEW
SCALE: 1" = 1'-0"

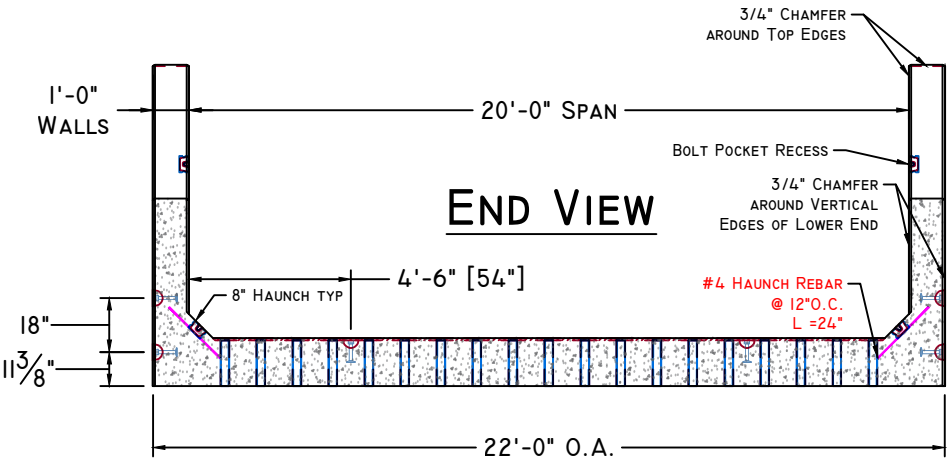
- STANTEC CONSULTING SERVICES INC.
- ☒ NO EXCEPTION TAKEN
 - ☐ MAKE CORRECTIONS NOTED
 - ☐ REVISE & RESUBMIT
 - ☐ RESUBMIT CERTIFIED

REVIEW BY STANTEC IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMITY WITH DESIGN. The review does not relieve the contractor of his responsibility for equipment design dimensions, fit, quality & compliance with the contract documents nor for construction means, methods, techniques and sequences and any errors or omissions in the shop drawings.


By: K. Wight Date: 4/16/2020



SECTION A-A



END VIEW

<div></div> <div>Superior Concrete, LLC 982 MINOT AVE. AUBURN, ME. 04210 TEL: 207-784-1388 FAX: 866-414-9083 WWW.SUPERIORCONCRETE.COM</div>		
ITEM	QTY	BILL OF MATERIALS
H	(2)	7'-6" SMALL SLOPED SECTION (46,200 #/EA.)
	(16)	LPA8T634G LIFTING PIN (8 EA / SECTION)
	(8)	BOLT POCKET RECESS (4 EA / SECTION)
	(38)	2-1/2"Ø PVC SLEEVE x 15-1/4" LONG (19/SECT.)
	(32)	#4 x 24" HAUNCH BAR (16 EA / SECTION)
<div>DESIGN NOTES:</div> <div><div>1. Concrete</div><div>1.1. COMP. STRENGTH MIN. 5,000PSI @ 28 DAYS</div><div>1.2. AIR-ENTRAINMENT: 5.5% - 7.5%</div><div>2. Structural Reinforcement:</div><div>2.1. BAR PER ASTM A615, GRADE 60</div><div>2.2. WWR PER ASTM A1064, GRADE 75</div><div>2.3. INTEGRATE REBAR WITH LIFTING INSERT(S)</div><div>2.4. INTERRUPTED BAR AREAS WILL BE REPLACED EACH SIDE WITH HALF THE AFFECTED AREA</div><div>2.5. DESIGNED FOR HL-93 (+25% LL) WHEEL LOAD RATING</div><div>2.6. 2" CLR EXTERIOR, 1 1/2" CLR INTERIOR</div><div>3. Manufacturing / Installation:</div><div>3.1. FULL BOX JOINTS AND SLOPED END SECTIONS TO BE SEALED WITH CONSEAL CS-102 BUTYL SEALANT (JOINT GROWTH OF 1/2"± IS EXPECTED PER JOINT)</div><div>3.2. CONFORMS STRICTLY TO ASTM AND MAINE DOT STANDARDS</div><div>3.3. ALL EXPOSED SURFACES TO HAVE A RUBBED FINISH OR APPROVED EQUAL IN ACCORDANCE WITH SPEC. SECTION 534.17</div><div>3.4. ALL FORM TIES, METAL INSERTS (ETC.) MUST BE RECESSED A MIN. OF 1 INCH FROM SURFACE AND AREA GROUTED AFTER USE / INSTALLATION</div><div>4. Soil / Fill Requirements:</div><div>4.1. MINIMUM = 2.0 FT</div><div>4.2. MAXIMUM = 2.5 FT</div><div>4.3. FILL INCREMENT = 0.50 FT</div><div>4.4. DESIGNED FOR 2.0 FT (MIN.) FILL WITH TYPICAL CONSTRUCTION LOADING ON TOP SLAB</div></div>		

Note: Some details not shown for clarity
SCALE: 3/16" = 1'-0" Unless otherwise noted

STRUCTURE NAME: 20'S X 10'R X 82'L BOX CULVERT (CLAMSHELL)	
JOB NAME: DURRELLS MILL BRIDGE (WIN 22234.00)	
LOCATION: NEWTON BROOK - DIXFIELD, ME.	
CONTRACTOR/ OWNER: T.B.D. / MEDOT	
DRAWN BY: ABL	SHEET: <div>HI.5</div>
DATE: 03/12/2020	
REV.#: 0.01 DATE: 04/07/20	
PROJECT MGR: C.H.	SHEET: 6 OF 11



Superior Concrete, LLC

982 MINOT AVE. AUBURN, ME. 04210

TEL: 207-784-1388

FAX: 866-414-9083

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ITEM	QTY	BILL OF MATERIALS
		QUANTITIES BELOW ARE PER EACH HEADWALL
(4)		H100 #4 x 21'-8"L HORIZ. BAR
(22)		#4 x 24"L THREADED "J" HOOK BAR
(22)		FI 64126P FERRULE INSERT (CAST-INTO BC END)

DESIGN NOTES:

1. Concrete

- 1.1. COMP. STRENGTH MIN. 5,000PSI @ 28 DAYS
- 1.2. AIR-ENTRAINMENT: 5.5% - 7.5%

2. Structural Reinforcement:

- 2.1. BAR PER ASTM A615, GRADE 60
- 2.2. WWR PER ASTM A1064, GRADE 75
- 2.3. INTEGRATE REBAR WITH LIFTING INSERT(S)
- 2.4. INTERRUPTED BAR AREAS WILL BE REPLACED EACH SIDE WITH HALF THE AFFECTED AREA
- 2.5. DESIGNED FOR HL-93 (+25% LL) WHEEL LOAD RATING
- 2.6. 2" CLR EXTERIOR, 1 1/2" CLR INTERIOR

3. Manufacturing / Installation:

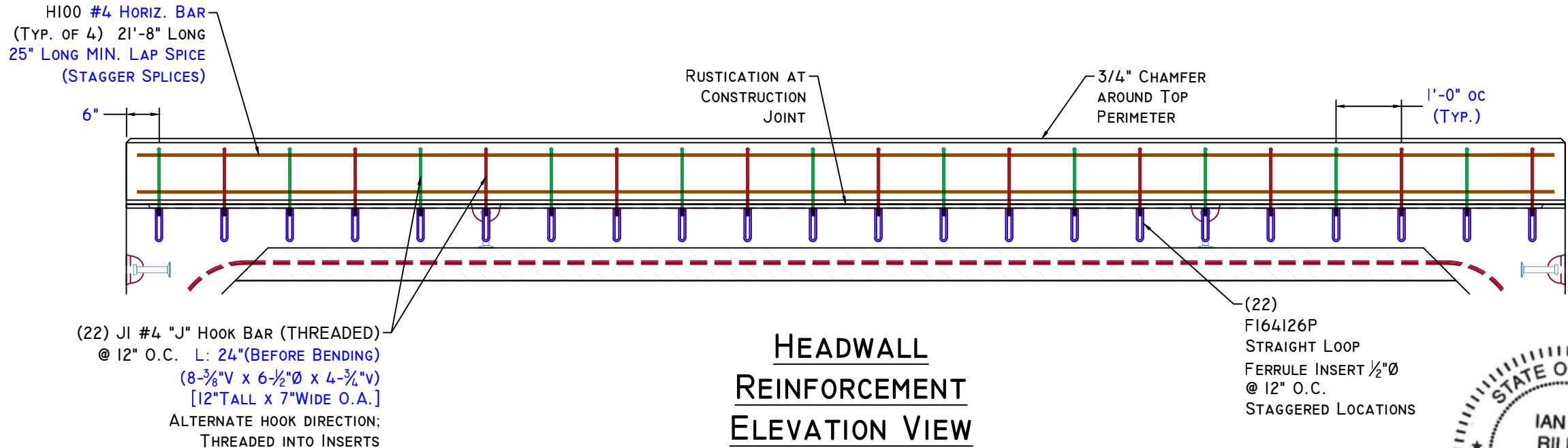
- 3.1. FULL BOX JOINTS AND SLOPED END SECTIONS TO BE SEALED WITH CONSEAL CS-102 BUTYL SEALANT (JOINT GROWTH OF 1/2"± IS EXPECTED PER JOINT)
- 3.2. CONFORMS STRICTLY TO ASTM AND MAINE DOT STANDARDS
- 3.3. ALL EXPOSED SURFACES TO HAVE A RUBBED FINISH OR APPROVED EQUAL IN ACCORDANCE WITH SPEC. SECTION 534.17
- 3.4. ALL FORM TIES, METAL INSERTS (ETC.) MUST BE RECESSED A MIN. OF 1 INCH FROM SURFACE AND AREA GROUTED AFTER USE / INSTALLATION

4. Soil / Fill Requirements:

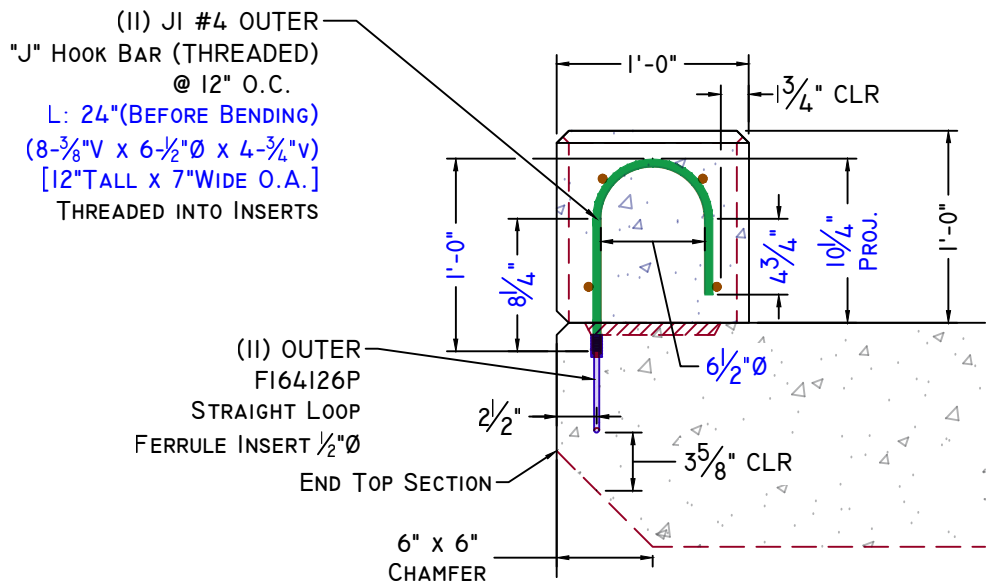
- 4.1. MINIMUM = 2.0 FT
- 4.2. MAXIMUM = 2.5 FT
- 4.3. FILL INCREMENT = 0.50 FT
- 4.4. DESIGNED FOR 2.0 FT (MIN.) FILL WITH TYPICAL CONSTRUCTION LOADING ON TOP SLAB

Note: Some details not shown for clarity
SCALE: 1/2" = 1'-0" Unless otherwise noted

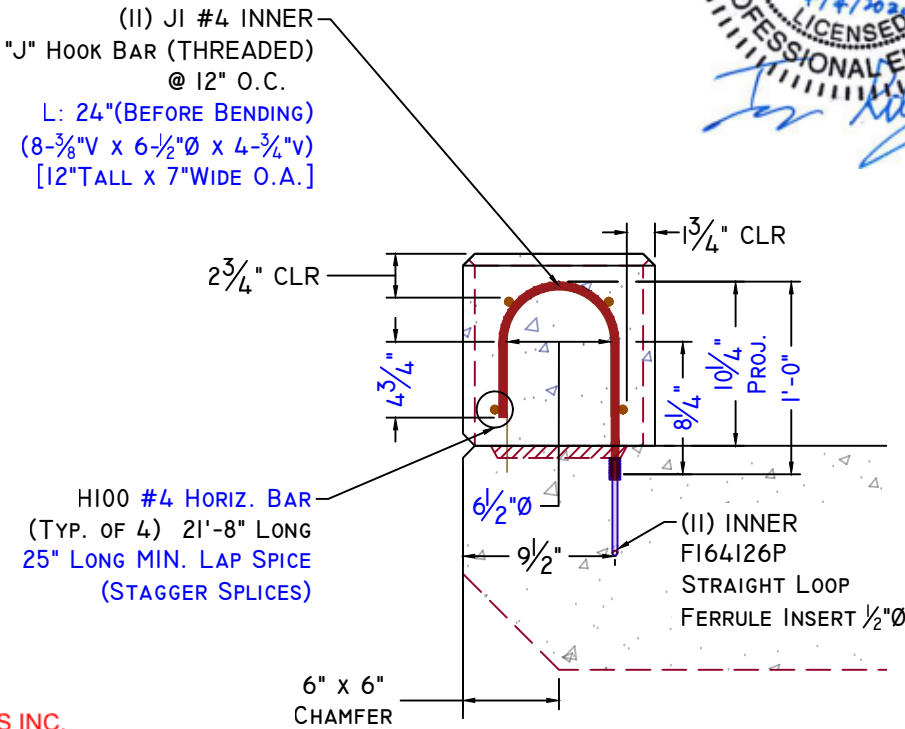
STRUCTURE NAME:		20'S x 10'R x 82'L Box CULVERT (CLAMSHELL)	
JOB NAME:			
DURRELLS MILL BRIDGE (WIN 22234.00)			
LOCATION:			
NEWTON BROOK - DIXFIELD, ME.			
CONTRACTOR/ OWNER:			
T.B.D. / MEDOT			
DRAWN BY:		ABL	SHEET:
DATE:		03/12/2020	
REV.#:	0.01	DATE: 04/07/20	
PROJECT MGR:		C.H.	SHEET: 8 OF 11



HEADWALL
REINFORCEMENT
ELEVATION VIEW



SECTION VIEWS
OF HEADWALL
REINFORCEMENT
SCALE: 1" = 1'-0"

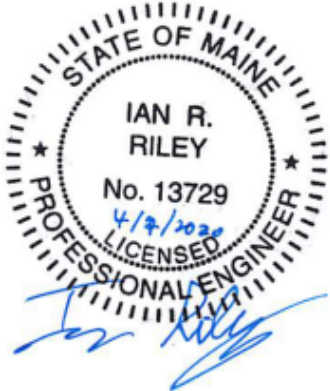


- ☒ NO EXCEPTION TAKEN
- ☐ MAKE CORRECTIONS NOTED
- ☐ REVISE & RESUBMIT
- ☐ RESUBMIT CERTIFIED

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By: K. Wight

Date: 4/16/2020



- ☒ NO EXCEPTION TAKEN
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By: **K. Wight** Date: **4/16/2020**

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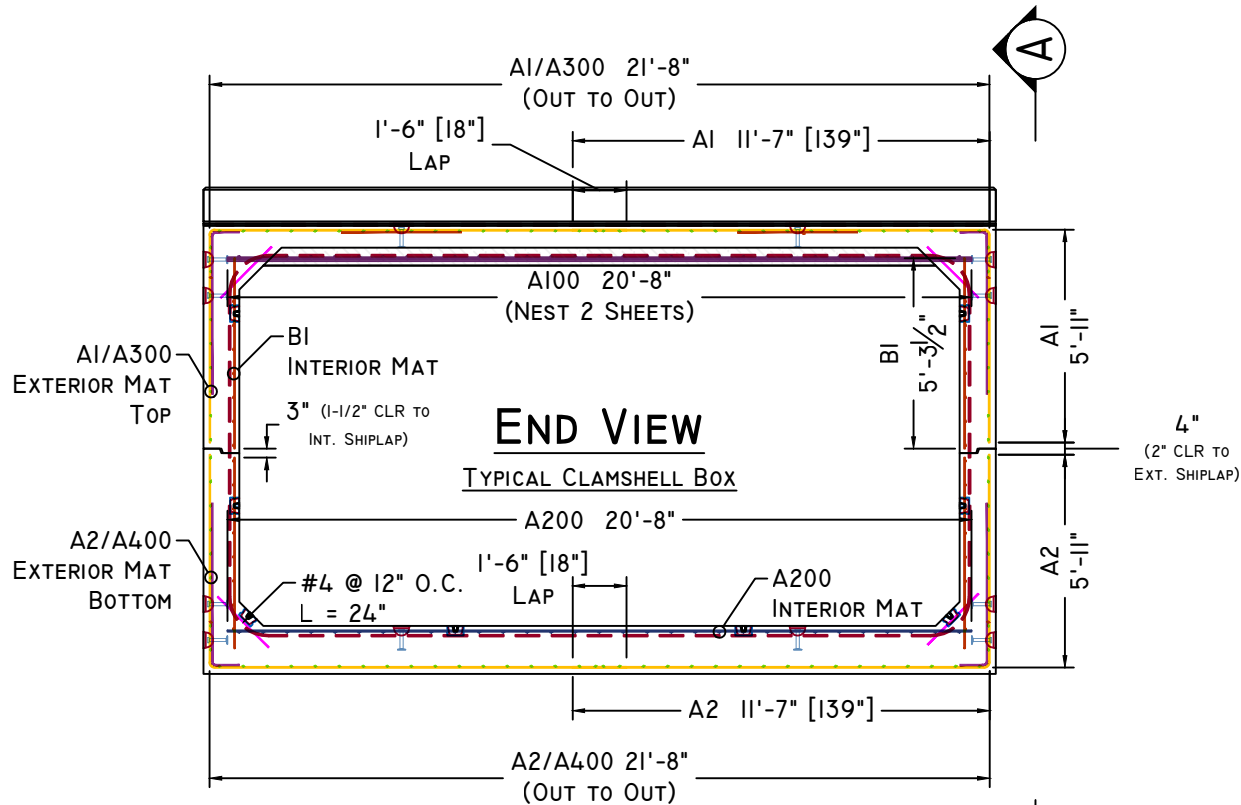
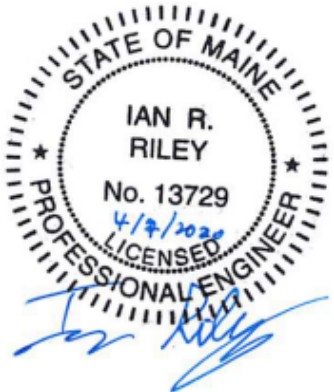
ITEM	QTY	BILL OF MATERIALS
(28)		BI WWR INT. WALL MAT (63'-1/2" X 87")
(14)		AI00 WWR INT. TOP SLAB MAT (248" X 87")
(7)		A200 WWR INT. BOT. SLAB MAT (248" X 87")
(14)		AI/A300 WWR EXT. TOP SLAB MAT (210" X 87")
(14)		A2/A400 WWR EXT. BOT. SLAB MAT (210" X 87")

- DESIGN NOTES:
- Concrete**
 - COMP. STRENGTH MIN. 5,000PSI @ 28 DAYS
 - AIR-ENTRAINMENT: 5.5% - 7.5%
 - Structural Reinforcement:**
 - BAR PER ASTM A615, GRADE 60
 - WWR PER ASTM A1064, GRADE 75
 - INTEGRATE REBAR WITH LIFTING INSERT(S)
 - INTERRUPTED BAR AREAS WILL BE REPLACED EACH SIDE WITH HALF THE AFFECTED AREA
 - DESIGNED FOR HL-93 (+25% LL) WHEEL LOAD RATING
 - 2" CLR EXTERIOR, 1 1/2" CLR INTERIOR
 - Manufacturing / Installation:**
 - FULL BOX JOINTS AND SLOPED END SECTIONS TO BE SEALED WITH CONSEAL CS-102 BUTYL SEALANT (JOINT GROWTH OF 1/2"± IS EXPECTED PER JOINT)
 - CONFORMS STRICTLY TO ASTM AND MAINE DOT STANDARDS
 - ALL EXPOSED SURFACES TO HAVE A RUBBED FINISH OR APPROVED EQUAL IN ACCORDANCE WITH SPEC. SECTION 534.17
 - ALL FORM TIES, METAL INSERTS (ETC.) MUST BE RECESSED A MIN. OF 1 INCH FROM SURFACE AND AREA GROUTED AFTER USE / INSTALLATION
 - Soil / Fill Requirements:**
 - MINIMUM = 2.0 FT
 - MAXIMUM = 2.5 FT
 - FILL INCREMENT = 0.50 FT
 - DESIGNED FOR 2.0 FT (MIN.) FILL WITH TYPICAL CONSTRUCTION LOADING ON TOP SLAB

Note: Some details not shown for clarity

SCALE: 3/16" = 1'-0" Unless otherwise noted

STRUCTURE NAME: 20'S X 10'R X 82'L Box CULVERT (CLAMSHELL)	
JOB NAME: DURRELLS MILL BRIDGE (WIN 22234.00)	
LOCATION: NEWTON BROOK - DIXFIELD, ME.	
CONTRACTOR/ OWNER: T.B.D. / MEDOT	
DRAWN BY: ABL	SHEET: SRI.8
DATE: 03/12/2020	
REV.#: 0.01	DATE: 04/07/20
PROJECT MGR: C.H.	SHEET: 9 OF 11



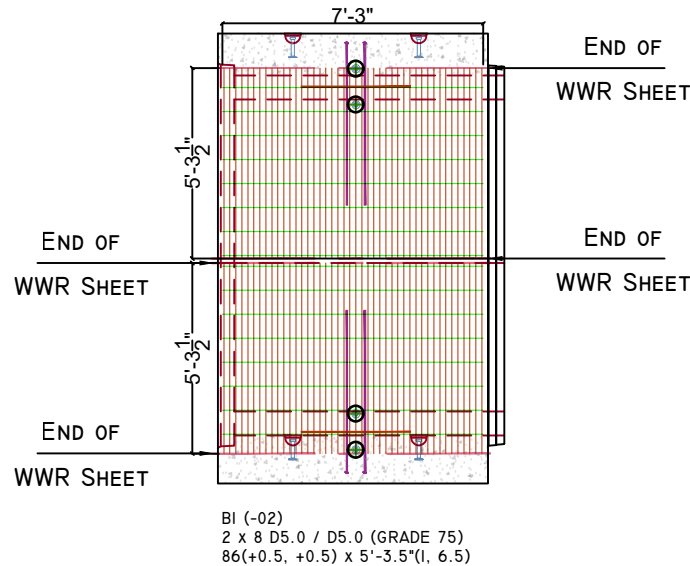
NOTE:

7'-0" FEMALE END

TRIM WWR MATS FOR FEMALE END TO

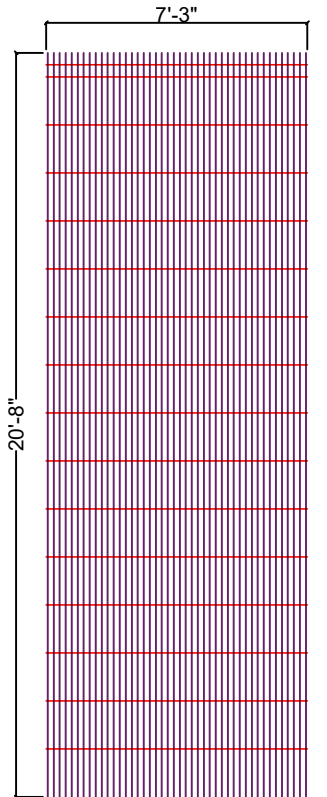
6'-9" WIDE

TO MAINTAIN 1-1/2" CLR TO JOINT FACES



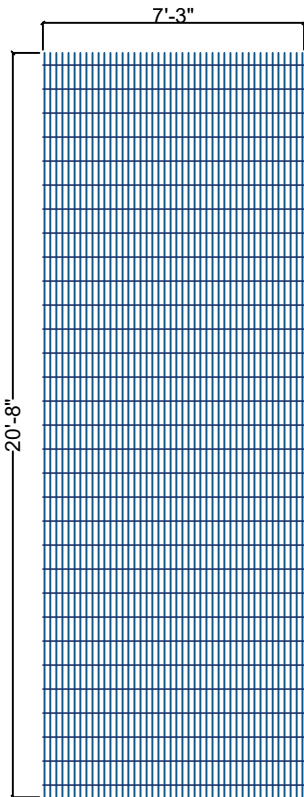
SECTION A-A

BI INTERIOR WWR MAT



PLAN VIEW

AI00 TOP SLAB INTERIOR WWR MAT

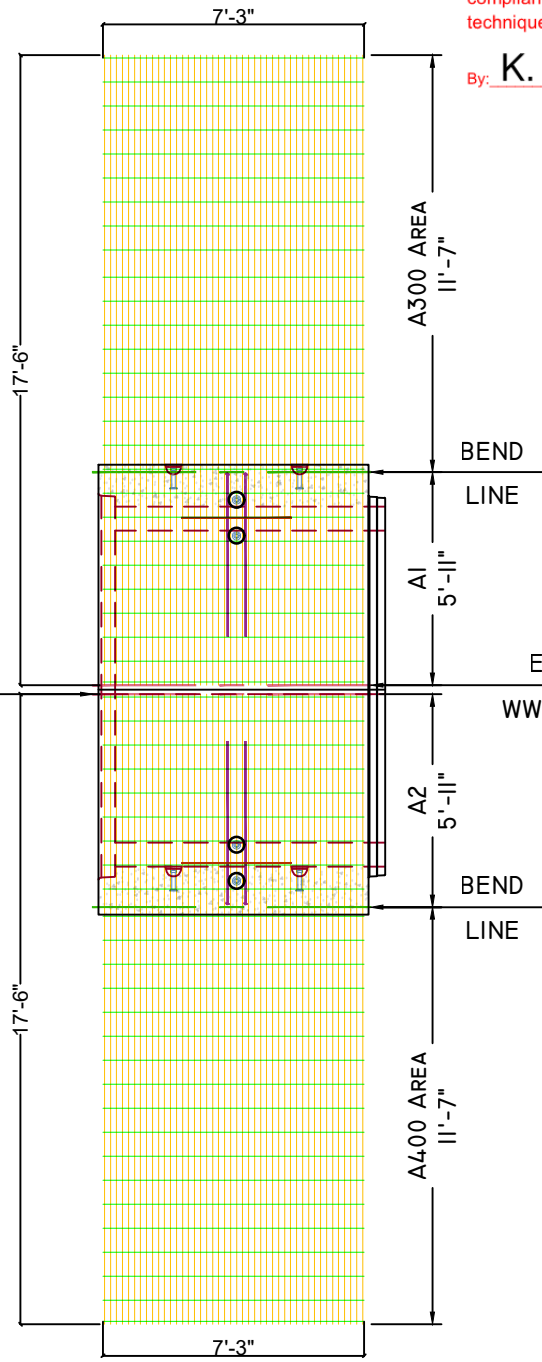


PLAN VIEW

A200 BOTTOM SLAB INTERIOR WWR MAT

END OF WWR SHEET

B2 (-01) [AI / A300]
2 x VAR D6.5 / D5.0 (GRADE 75)
86(+0.5, +0.5) x 17'-6"(I, I)
VAR = 1" OH, 8@8", 1@9", 16@8", 1@7", 1" OH



B2 (-01) [A2 / A400]
2 x VAR D6.5 / D5.0 (GRADE 75)
86(+0.5, +0.5) x 17'-6"(I, I)
VAR = 1" OH, 8@8", 1@9", 16@8", 1@7", 1" OH

SECTION A-A

AI/A300 & A2/A400
EXTERIOR WWR MATS

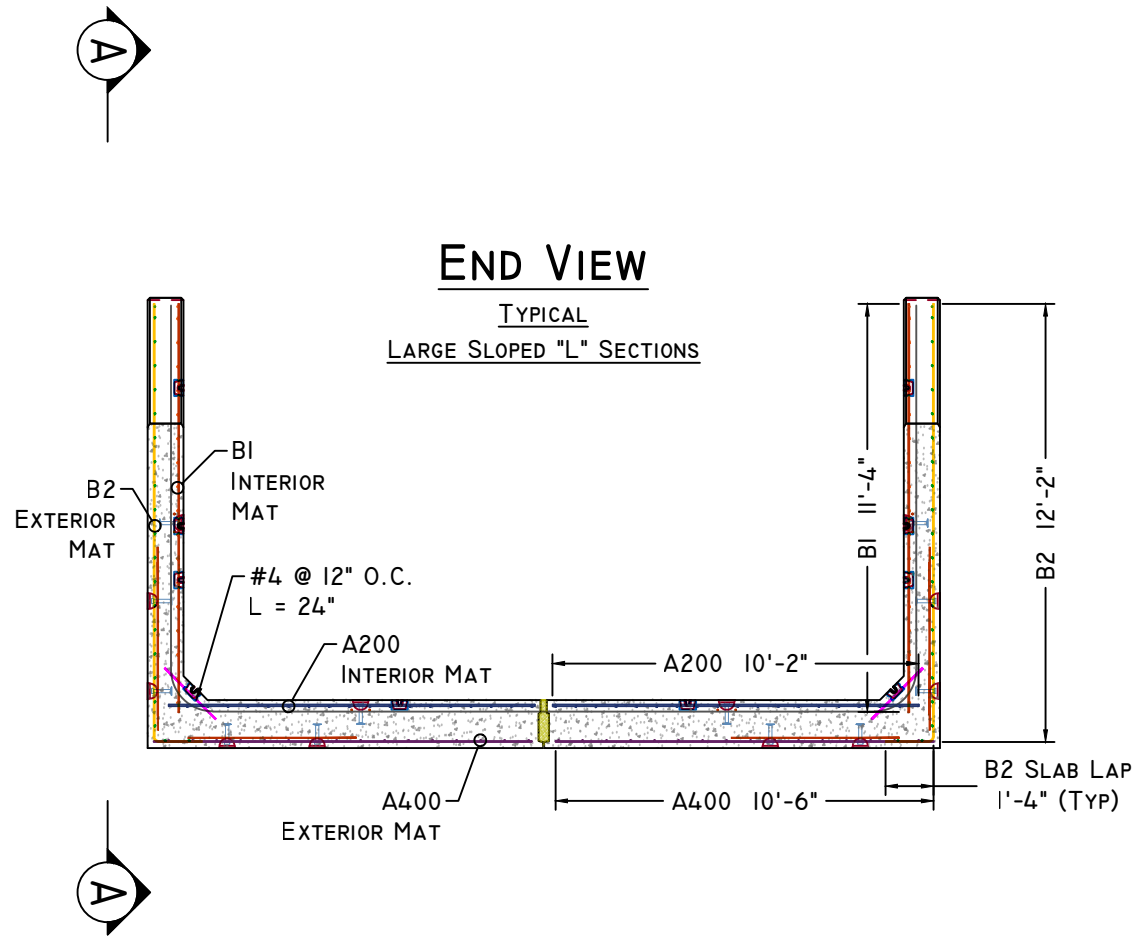
STANTEC CONSULTING SERVICES INC.

- ☒ NO EXCEPTION TAKEN
☐ MAKE CORRECTIONS NOTED
☐ REVISE & RESUBMIT
☐ RESUBMIT CERTIFIED

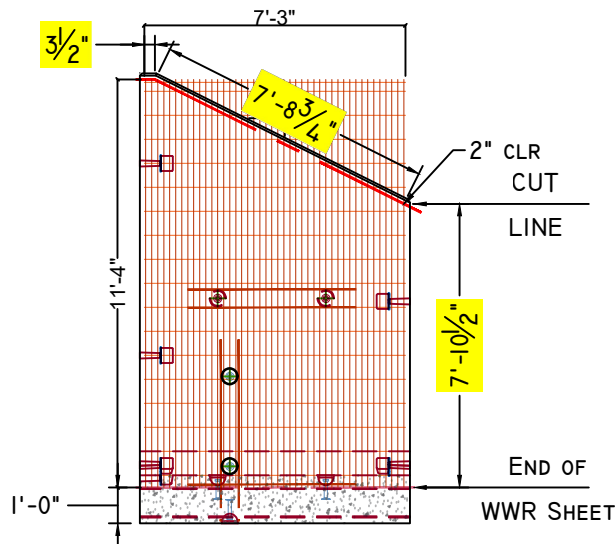
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By: **K. Wight**

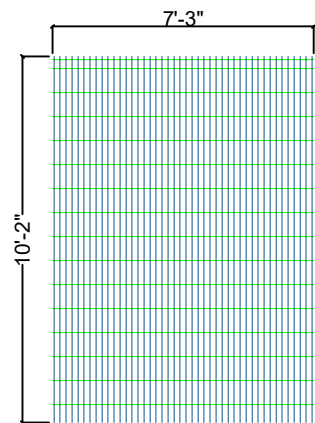
Date: **4/16/2020**



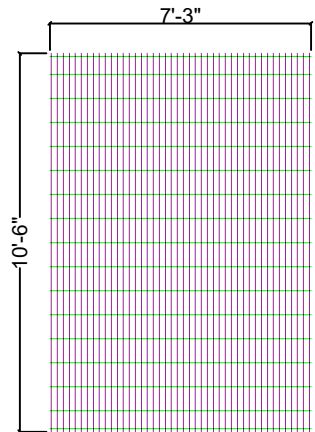
WWR DETAILS



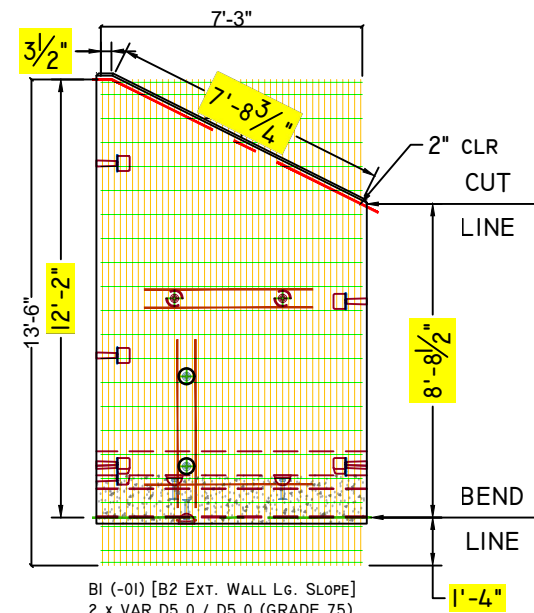
BI (-03)
2 x VAR D5.0 / D5.0 (GRADE 75)
86(+0.5, +0.5) x 11'-4"(I, 4)
VAR = 1" OH, 1@3", 16@8", 4" OH



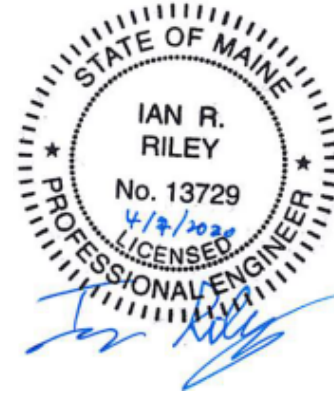
A200 (-04)
2 x VAR D6.4 / D5.0 (GRADE 75)
86(+0.5, +0.5) x 10'-2"(I, 4)
VAR = 1" OH, 1@3", 14@8", 4" OH



AE400 (-02)
2 x VAR D6.4 / D5.0 (GRADE 75)
86(+0.5, +0.5) x 10'-6"(I, 1)
VAR = 1" OH, 1@6", 14@8", 1@6", 1" OH



BI (-01) [B2 EXT. WALL LG. SLOPE]
2 x VAR D5.0 / D5.0 (GRADE 75)
86(+0.5, +0.5) x 13'-6"(I, 1)
VAR = 1" OH, 1@4", 19@8", 1@4", 1" OH



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982 MINOT AVE. AUBURN, ME. 04210
TEL: 207-784-1388
FAX: 866-414-9083
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ITEM	QTY	BILL OF MATERIALS
	(4)	BI WWR INT. WALL MAT (136" X 87")
	(4)	B2 WWR EXT. WALL MAT (162" X 87")
	(4)	A200 WWR INT. FLOOR MAT (122" X 87")
	(4)	A400 WWR EXT. FLOOR MAT (126" X 87")

DESIGN NOTES:

- Concrete**
 - 1.1. COMP. STRENGTH MIN. 5,000PSI @ 28 DAYS
 - 1.2. AIR-ENTRAINMENT: 5.5% - 7.5%
- Structural Reinforcement:**
 - 2.1. BAR PER ASTM A615, GRADE 60
 - 2.2. WWR PER ASTM A1064, GRADE 75
 - 2.3. INTEGRATE REBAR WITH LIFTING INSERT(S)
 - 2.4. INTERRUPTED BAR AREAS WILL BE REPLACED EACH SIDE WITH HALF THE AFFECTED AREA
 - 2.5. DESIGNED FOR HL-93 (+25% LL) WHEEL LOAD RATING
 - 2.6. 2" CLR EXTERIOR, 1 1/2" CLR INTERIOR
- Manufacturing / Installation:**
 - 3.1. FULL BOX JOINTS AND SLOPED END SECTIONS TO BE SEALED WITH CONSEAL CS-102 BUTYL SEALANT (JOINT GROWTH OF 1/2"± IS EXPECTED PER JOINT)
 - 3.2. CONFORMS STRICTLY TO ASTM AND MAINE DOT STANDARDS
 - 3.3. ALL EXPOSED SURFACES TO HAVE A RUBBED FINISH OR APPROVED EQUAL IN ACCORDANCE WITH SPEC. SECTION 534.17
 - 3.4. ALL FORM TIES, METAL INSERTS (ETC.) MUST BE RECESSED A MIN. OF 1 INCH FROM SURFACE AND AREA GROUTED AFTER USE / INSTALLATION
- Soil / Fill Requirements:**
 - 4.1. MINIMUM = 2.0 FT
 - 4.2. MAXIMUM = 2.5 FT
 - 4.3. FILL INCREMENT = 0.50 FT
 - 4.4. DESIGNED FOR 2.0 FT (MIN.) FILL WITH TYPICAL CONSTRUCTION LOADING ON TOP SLAB

Note: Some details not shown for clarity
SCALE: 1/4" = 1'-0" Unless otherwise noted

STRUCTURE NAME: 20'S X 10'R X 82'L Box CULVERT (CLAMSHELL)	
JOB NAME: DURRELLS MILL BRIDGE (WIN 22234.00)	
LOCATION: NEWTON BROOK - DIXFIELD, ME.	
CONTRACTOR/ OWNER: T.B.D. / MEDOT	
DRAWN BY: ABL	SHEET: SRI.9
DATE: 03/12/2020	
REV.#: 0.01	DATE: 04/07/20
PROJECT MGR: C.H.	SHEET: 10 OF 11

Note:
High Lighted Dimensions are Finished/ Cut Dims.
after Cutting of WWR Sheets.

SECTION A-A

BI INTERIOR WWR MAT

PLAN VIEW

A200 BOTTOM SLAB INTERIOR WWR MAT

PLAN VIEW

A400 BOTTOM SLAB EXTERIOR WWR MAT

SECTION A-A

B2/A400 EXTERIOR WWR MAT

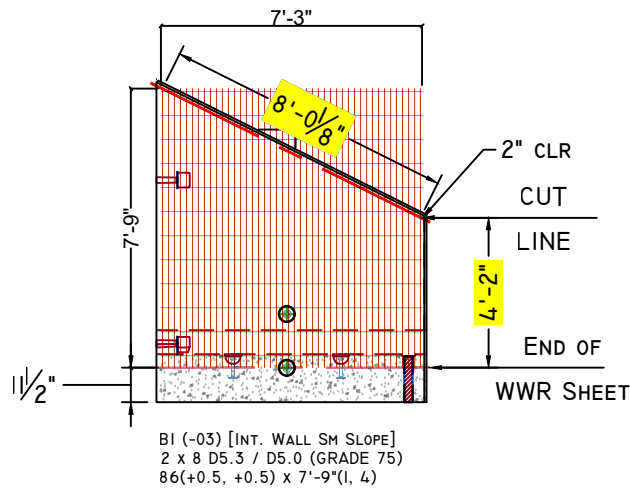
STANTEC CONSULTING SERVICES INC.

- ☒ NO EXCEPTION TAKEN
☐ MAKE CORRECTIONS NOTED
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☐ RESUBMIT CERTIFIED

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By: **K. Wight**

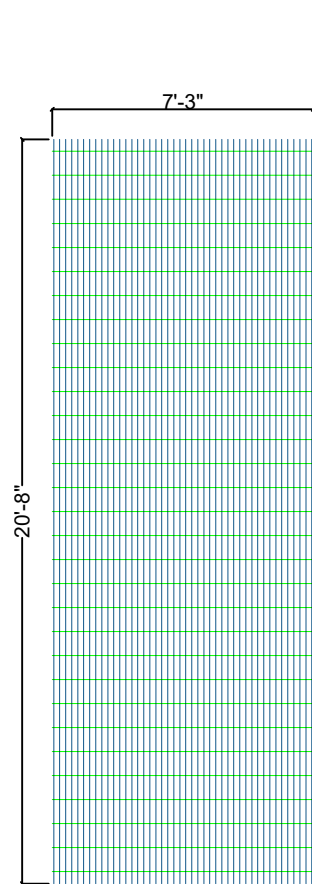
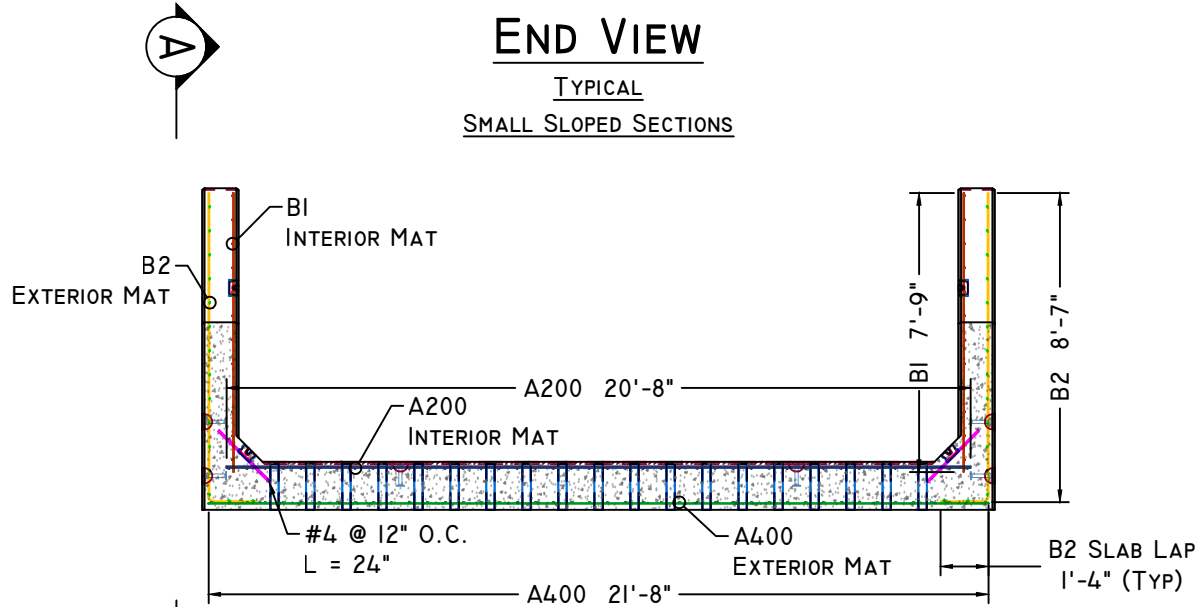
Date: **4/16/2020**



Note:
High Lighted Dimensions are Finished/ Cut Dims.
after Cutting of WWR Sheets.

SECTION A-A

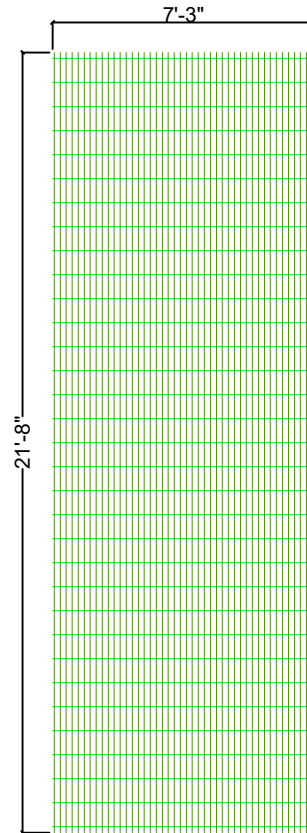
BI INTERIOR WWR MAT



PLAN VIEW

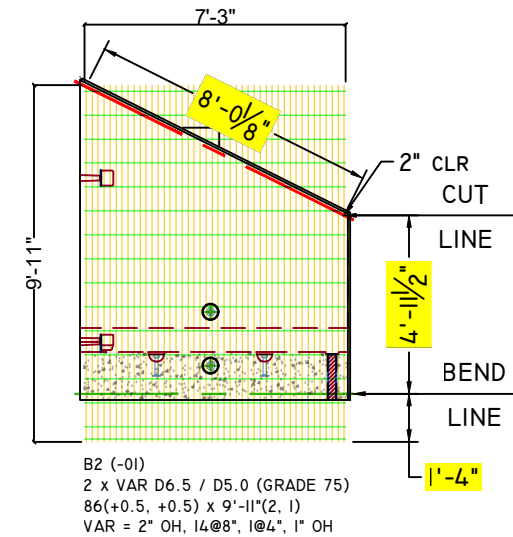
A200 BOTTOM SLAB INTERIOR WWR MAT

WWR DETAILS



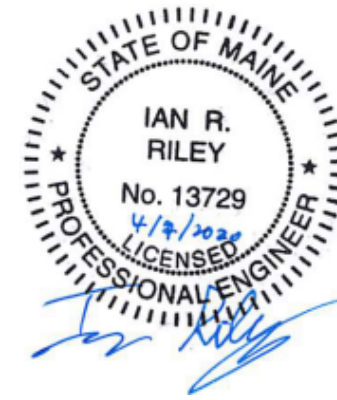
PLAN VIEW

A400 BOTTOM SLAB EXTERIOR WWR MAT



SECTION A-A

B2/A400 EXTERIOR WWR MAT



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TEL: 207-784-1388
FAX: 866-414-9083
WWW.SUPERIORCONCRETE.COM

ITEM	QTY	BILL OF MATERIALS
	(4)	BI WWR INT. WALL MAT (93" X 87")
	(4)	B2 WWR EXT. WALL MAT (119" X 87")
	(2)	A200 WWR INT. FLOOR MAT (248" X 87")
	(2)	A400 WWR EXT. FLOOR MAT (260" X 87")

- DESIGN NOTES:**
- Concrete**
 - 1.1. COMP. STRENGTH MIN. 5,000PSI @ 28 DAYS
 - 1.2. AIR-ENTRAINMENT: 5.5% - 7.5%
 - Structural Reinforcement:**
 - 2.1. BAR PER ASTM A615, GRADE 60
 - 2.2. WWR PER ASTM A1064, GRADE 75
 - 2.3. INTEGRATE REBAR WITH LIFTING INSERT(S)
 - 2.4. INTERRUPTED BAR AREAS WILL BE REPLACED EACH SIDE WITH HALF THE AFFECTED AREA
 - 2.5. DESIGNED FOR HL-93 (+25% LL) WHEEL LOAD RATING
 - 2.6. 2" CLR EXTERIOR, 1 1/2" CLR INTERIOR
 - Manufacturing / Installation:**
 - 3.1. FULL BOX JOINTS AND SLOPED END SECTIONS TO BE SEALED WITH CONSEAL CS-102 BUTYL SEALANT (JOINT GROWTH OF 1/2"± IS EXPECTED PER JOINT)
 - 3.2. CONFORMS STRICTLY TO ASTM AND MAINE DOT STANDARDS
 - 3.3. ALL EXPOSED SURFACES TO HAVE A RUBBED FINISH OR APPROVED EQUAL IN ACCORDANCE WITH SPEC. SECTION 534.17
 - 3.4. ALL FORM TIES, METAL INSERTS (ETC.) MUST BE RECESSED A MIN. OF 1 INCH FROM SURFACE AND AREA GROUTED AFTER USE / INSTALLATION
 - Soil / Fill Requirements:**
 - 4.1. MINIMUM = 2.0 FT
 - 4.2. MAXIMUM = 2.5 FT
 - 4.3. FILL INCREMENT = 0.50 FT
 - 4.4. DESIGNED FOR 2.0 FT (MIN.) FILL WITH TYPICAL CONSTRUCTION LOADING ON TOP SLAB

Note: Some details not shown for clarity
SCALE: 1/4" = 1'-0" Unless otherwise noted

STRUCTURE NAME: 20'S x 10'R x 82'L Box CULVERT (CLAMSHELL)	
JOB NAME: DURRELLS MILL BRIDGE (WIN 22234.00)	
LOCATION: NEWTON BROOK - DIXFIELD, ME.	
CONTRACTOR/ OWNER: T.B.D. / MEDOT	
DRAWN BY: ABL	SHEET: SRI.10
DATE: 03/12/2020	REV.#: 0.01 DATE: 04/07/20
PROJECT MGR: C.H.	SHEET: 11 OF 11